DVX-100

SERVICE MANUAL

Ver. 1.3 2005.03

US Model
Canadian Model
AEP Model
UK Model
E Model
Chinese Model



• DVX-100 is composed of following units.

DVD changer
FM modulator (RF unit)
Wired remote commander (RM-X130)
Wireless remote commander (RM-X120)
Remote control sensor

SPECIFICATIONS

DVD changer

Laser Semiconductor laser
Signal format system
For the customers in Europe, China, Oceania and Asia
PAL
For the customers in the USA, Canada and Center & South America
NTSC

Audio characteristics

Frequency response
5 Hz to 20 kHz
Signal to noise ratio
90 dB
Harmonic distortion
0.01 %
Dynamic range
90 dB
Wow and flutter
below measurable limits
(±0.001 % W PEAK)

General

Power requirements
12V DC car battery
(negative ground)
Outputs
Audio output
Video output
Digital output
RF signal (FM) output
Inputs
Connector of remote control censor
Power consumption
1 A (during playback)
Dimensions (approx.)
250 × 80 × 205 mm
(w / h / d) incl. projecting parts
Mass (approx.)
2.5 kg
Operating temperature
–10 ˚C to 55 ˚C

Supplied accessories

Wired remote commander (1)
Wireless remote commander (1)
Remote control sensor (1)
Disc magazine (1)
FM modulator (1)
AA (R6) alkaline batteries (2)
Index label (1)
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

DVD CHANGER

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2005C05-1
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e Vehicle Group
Published by Sony Engineering Corporation

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

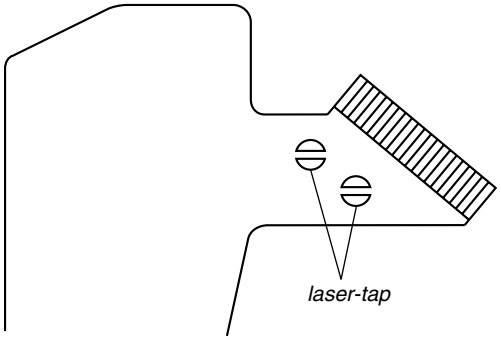
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

Never look into the laser diode emission from right avove when checking it for adustment. It is feared that you will lose your sight.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK .

The laser diode in the optical pick-up block may suffer electrostatic break-down easily. When handling it, perform soldering bridge to the laser-tap on the flexible board. Also perform measures against electrostatic break-down sufficiently before the operation. The flexible board is easily damaged and should be handled with care.



OPTICAL PICK-UP FLEXIBLE BOARD

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

US, Canadian models:

Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

AEP, UK models:

CLASS 1
LASER PRODUCT

This product is classified as a CLASS 1 LASER PRODUCT.
The CLASS 1 LASER PRODUCT label is located of the rear exterior.

CAUTION — VISIBLE AND INVISIBLE LASER RADIATION
WHEN OPEN AVOID EXPOSURE TO BEAM

This label is located on the rear exterior.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

1. SERVICING NOTES 4

2. GENERAL 11

3. DISASSEMBLY
3-1. Disassembly Flow 15
3-2. Cabinet Assy 16
3-3. Front Panel Assy 16
3-4. MPEG Board 17
3-5. MAIN Board 17
3-6. Mechanism Deck 18
3-7. Top Chassis Assy 18
3-8. DC Motor Assy (Elevator) (M1) 19
3-9. Mechanism Panel Assy, Elevator Section 19
3-10. DC Motor Assy (Loading) (M3) 20
3-11. CD Board 20
3-12. DVD Chassis Assy 21

4. ASSEMBLY
4-1. Adjusting Phase of A Slide Plate, B Slide Plate, C Slide Plate and D Slide Plate 22

5. ELECTRICAL ADJUSTMENTS 23

6. DIAGRAMS
6-1. Block Diagram – SERVO Section – 25
6-2. Block Diagram – VIDEO/AUDIO Section – 26
6-3. Block Diagram – MAIN Section – 27
6-4. Block Diagram – CONTROL/POWER Section – 28
6-5. Note for Printed Wiring Boards and Schematic Diagrams 29
6-6. Printed Wiring Boards – SERVO Section – 30
6-7. Schematic Diagrams – SERVO Section – 31
6-8. Printed Wiring Boards – MAIN (Side A)/ADD Boards (Type A, B) – 32
6-9. Printed Wiring Board – MAIN Board (Side B) (Type A, B) – 33
6-10. Schematic Diagram – MAIN Section (1/4) (Type A, B) – 34
6-11. Schematic Diagram – MAIN Section (2/4) (Type A, B) – 35
6-12. Schematic Diagram – MAIN Section (3/4) (Type A, B) – 36
6-13. Schematic Diagram – MAIN Section (4/4) (Type A, B) – 37
6-14. Printed Wiring Board – MAIN Board (Side A) (Type C) – 38
6-15. Printed Wiring Board – MAIN Board (Side B) (Type C) – 39
6-16. Schematic Diagram – MAIN Section (1/4) (Type C) – 40
6-17. Schematic Diagram – MAIN Section (2/4) (Type C) – 41
6-18. Schematic Diagram – MAIN Section (3/4) (Type C) – 42
6-19. Schematic Diagram – MAIN Section (4/4) (Type C) – 43
6-20. Printed Wiring Board – MPEG Board (Component Side) – 44
6-21. Printed Wiring Board – MPEG Board (Conductor Side) – 45
6-22. Schematic Diagram – MPEG Section (1/4) – 46
6-23. Schematic Diagram – MPEG Section (2/4) – 47
6-24. Schematic Diagram – MPEG Section (3/4) – 48
6-25. Schematic Diagram – MPEG Section (4/4) – 49
6-26. IC Pin Function Description 52

7. EXPLODED VIEWS
7-1. Front Panel, Cabinet Section 55
7-2. MPEG Board Section 56
7-3. Bottom Lid Section 57
7-4. Mechanism Deck (Top Chassis Section) 58
7-5. Mechanism Deck (Front Plate, Slide Plate Section) 59
7-6. Mechanism Deck (Base Chassis Section) 60
7-7. Mechanism Deck (DVD Chassis Section) 61
7-8. Mechanism Deck (Elevator Chassis Section) 62
7-9. Mechanism Deck (Clamp Chassis Section) 63

8. ELECTRICAL PARTS LIST 64

SECTION 1
SERVICING NOTES

TEST DISC

This set can playback a CD-R, CD-RW for audio use and DVD.
When test this set, use the following test disc.
Test disc for CD-R: TCD-R082LMT (Part No.: J-2501-063-1)
Test disc for CD-RW: TCD-W082L (Part No.: J-2501-063-2)
Test disc for DVD:

NTSC:
HLX-504 (Part No.: J-6090-088-A) (single layer)
HLX-505 (Part No.: J-6090-089-A) (dual layer)

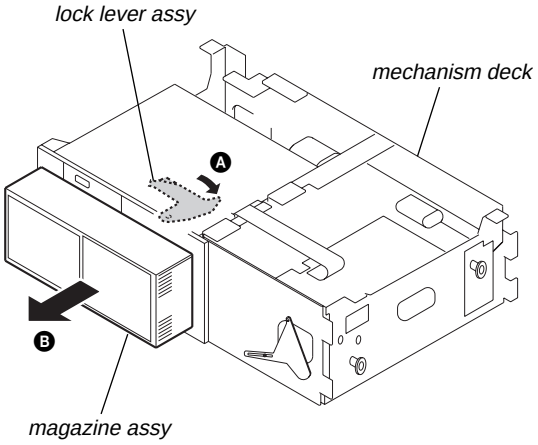
PAL:
HLX-506 (Part No.: J-6090-077-A) (single layer)
HLX-507 (Part No.: J-6090-078-A) (dual layer)

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CABINET ASSY, FRONT PANEL ASSY, MPEG BOARD and MECHANISM DECK beforehand.
(Refer to DISASSEMBLY 3-2 to 3-4 and 3-6.)

1) Press the lock lever assy in the direction of arrow Ⓐ.
2) Removal the magazine assy in the direction of arrow Ⓑ.

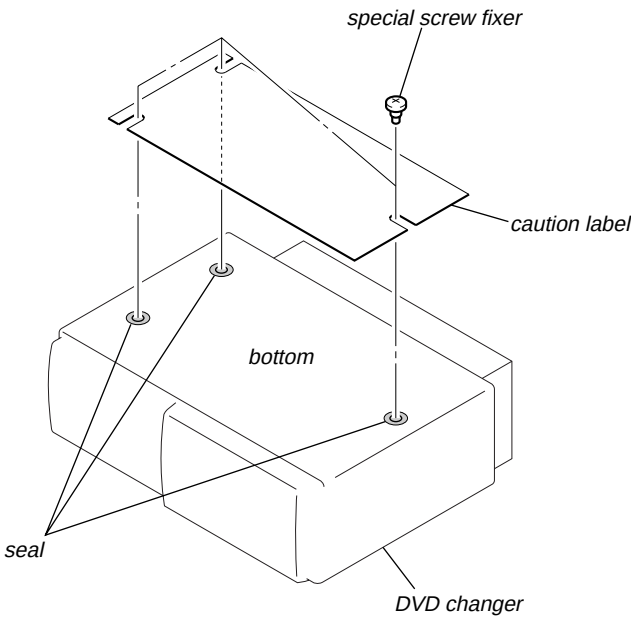
Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



NOTE FOR TRANSPORTING A SET

When a set is transporting after service is completed, be sure to put the caution label (9-885-016-81) on the bottom of the set and fix it with three special screw fixers (9-885-016-80).

Note: Seals may be attached on the holes for special screw fixers. Remove them completely, then install special screw fixers.



This Unit Can Play the Following Discs

	DVD VIDEOs	Video CDs	Audio CDs
Disc logo	DVD VIDEO DVD VIDEO	COMPACT disc DIGITAL VIDEO VIDEO CD	COMPACT disc DIGITAL AUDIO; COMPACT disc DIGITAL AUDIO Recordable; COMPACT disc DIGITAL AUDIO ReWritable
Contents	Audio + Video	Audio + Video	Audio

The "DVD VIDEO" logo is a trademark.

DVD
A DVD disc contains both audio and visual data. A 12 centimetre disc can hold 7 times the amount of data contained in a CD-ROM, which translates to 4 consecutive hours of playing time (8 hours for double-sided discs). DVD discs are divided into 4 types: single sided single layer, single sided double layer, double sided single layer, and double sided double layer.

Video CD
A Video CD can contain both audio and visual data on a disc the same size as a regular Audio CD. The playing time is 74 minutes for a standard 12 centimetre CD.

Audio CD
An Audio CD containing audio data. The playing time is 74 minutes for a standard 12 centimetre CD.

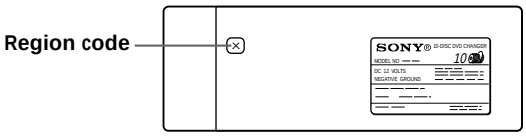
CD-Recordable (CD-R) for audio use
With a CD-R for audio use, you can edit audio data. You can write information on a CD-R only once.

CD-Rewritable (CD-RW) for audio use
With a CD-RW for audio use, you can edit audio data. You can write information on a CD-RW again and again.

CD-Extra
A CD-Extra has two sections containing audio and data. You can only play the section of audio on this unit.

Mixed CD
A Mixed CD has one section containing both audio and data. You can only play the part of audio on this unit.

Region code of DVDs you can play on this unit
Your DVD changer has a region code printed on the back of the unit and will only play DVDs that are labelled with identical region codes.
DVDs labelled (ALL) will also play on this unit.
If you try to play any other DVD, the message "This disc can't be played." will appear on the screen.
Depending on the DVD, the region code indication may not appear even if the DVD is prohibited by area restrictions.



Note on the TV colour systems
The colour system differs, depending on your country.
— Your DVD changer conforms to the PAL colour system. You cannot play discs recorded in other colour systems such as SECAM and NTSC.

Caution
- You can play CD-Rs and CD-RWs designed for audio with this unit, however, depending on the recorded conditions, you can't play some discs.
- You **CANNOT** play these discs on this unit.

— DVD-Audio	— DVD-RAM	— DVD-ROM	— 8 cm discs	— DVD-RW
— DVD-R	— Active-Audio (Data)	— CD-G	— Photo-CD	— VSD
— CD-Extra (Data)	— MixedCD (DATA)	— CD-ROM		

- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

This Unit Can Play the Following Discs

Note on PBC (Playback Control) (Video CDs)

This player conforms to Ver. 1.1 and Ver. 2.0 of Video CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
Video CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
Video CDs with PBC functions (Ver. 2.0 discs)	Play interactive software by using menu screens displayed on the monitor (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures if they are included on the disc.

Note on DTS-encoded CDs

When playing DTS*-encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analogue stereo outputs of this DVD changer are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of this DVD changer.

* "DTS," "DTS Digital Surround" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Note on CD-R/CD-RW

You can play certain CD-Rs and CD-RWs designed for audio use (provided the quality of the recording is adequate).

— You can play Digital Audio CD-Rs and CD-RWs bearing these icons:





— You **CANNOT** play (non-digital audio) CD-Rs and CD-RWs bearing these icons:







CHUCKING OPERATION CHECKING

After the disc chucking, the following operation is performed in this order.

1. Optical pick-up moves to the most-inside track
2. Laser diode ON
3. Disc type check
4. Focus search
5. Disc data is read

• Description of Each Operation

1. The optical pick-up moves toward inside until the limit switch transition "H" → "L" is detected.

2. When the optical pick-up moved to the most-inside track, the laser beam is emitted to check the disc type.
   First, the laser diode for DVD turns on to emit a red laser beam. (Never make an access to see the laser beam. Also, the laser beam for CD is not visible)
   When the laser beam is emitted, the voltage is applied between the CS101 pin ⑧ (LDADVD) or pin ㉒ (LDACD) on the MAIN board and CS101 pin ⑤ (5VA1) on the MAIN board.
   (DVD: approx. 300 mV, CD: approx. 500 mV)

3. For the disc type check operation, refer to the waveform shown below (Fig.1: DVD, Fig. 2: CD, Fig. 3: CD-RW). Each figure shows FAO, FE, and LVL waveforms from the top. The reference is VRD.

   FAO waveform (between IC102 pin ⑤ (FAO) on the MAIN board and IC101 pin ⑧ (VRD) on the MAIN board) :
   Output from the optical pick-up to the focus coil
   FE waveform (between IC101 pin ㉞ (FEO) on the MAIN board and IC101 pin ⑧ (VRD) on the MAIN board) :
   Signal from the optical pick-up when the object lens focus accesses to the record surface or disc surface
   LVL waveform (between IC101 pin ㉛ (LVL) on the MAIN board and IC101 pin ⑧ (VRD) on the MAIN board) :
   Level of reflected beam when laser beam is radiated on the record surface or disc surface

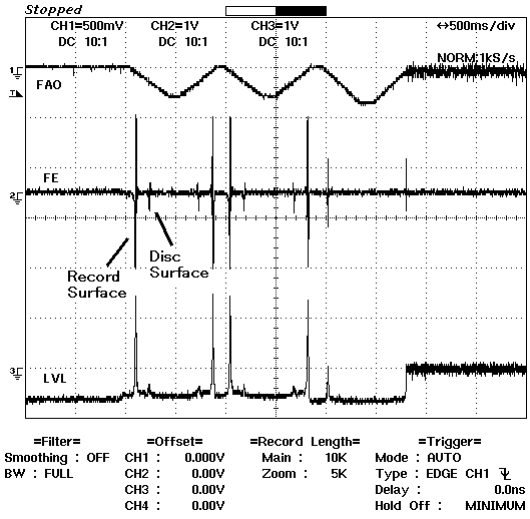


Fig. 1

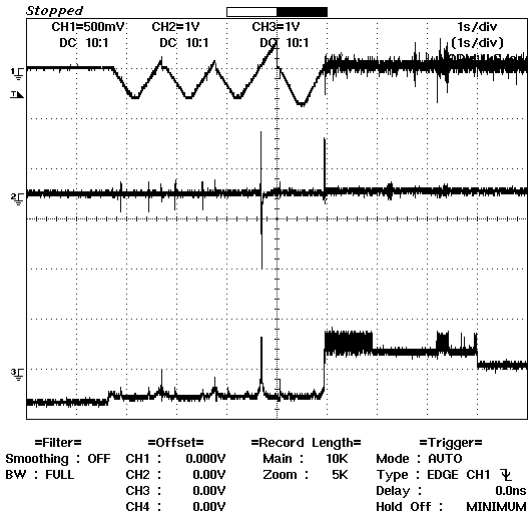


Fig. 2

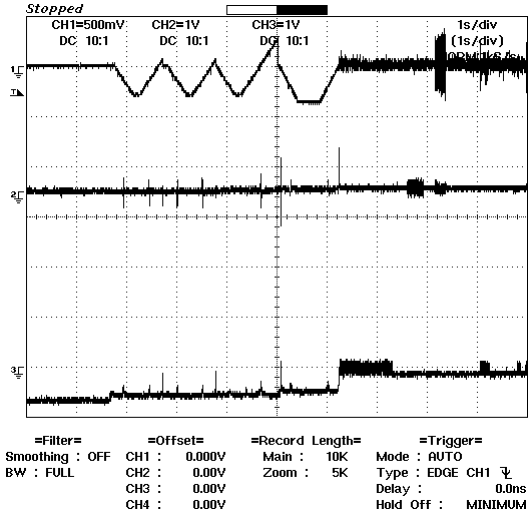


Fig. 3

By moving up or down the object lens of the optical pick-up at constant speed, the FE waveform of the record surface or disc surface can be got.
Fig. 1 to Fig. 3 show the waveforms when the focus servo turned on normally. As the record surface position of the CD and CD-RW is different from that of DVD, the FE waveform of the record surface may not be outputted.

4. As for the focus search, the object lens approaches to the disc, and when the FE of the record surface is got, the servo turns on to activate the focus. The disc is rotated a little before the focus search. For the signal that rotates the disc, refer to the EC waveform (third graph from the top) in Fig. 4. The disc rotates in the reverse direction (brake) on the minus side from the reference voltage (VDR), or it rotates forward on the plus side.
   After the focus ON, the disc is accelerated up to the specified constant speed, and after automatic adjustment finished, the disc information is read.

   EC waveform (between CS102 pin ⑤ (EC) on the MAIN board and IC101 pin ⑧ (VRD) on the MAIN board) :
   Output from the optical pick-up to the focus coil

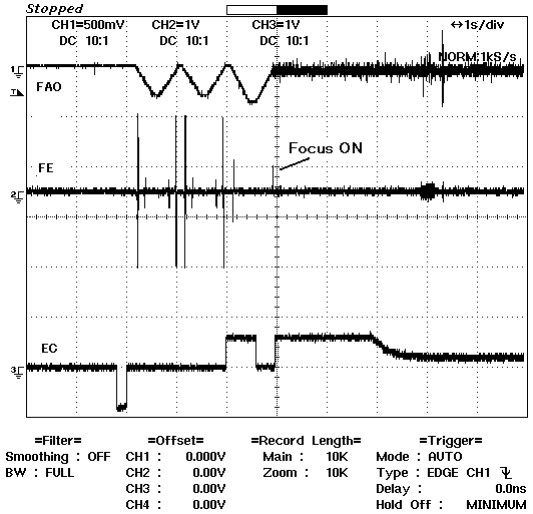


Fig. 4

5. After the focus ON, when automatic adjustment finished, the RF waveform as shown in Fig. 5 is outputted. The disc data cannot be read unless this waveform is outputted normally.

   RF waveform (between IC101 pin ㊺ (RFO) on the MAIN board and IC101 pin ⑧ (VRD) on the MAIN board) :
   Output from the optical pick-up to the focus coil

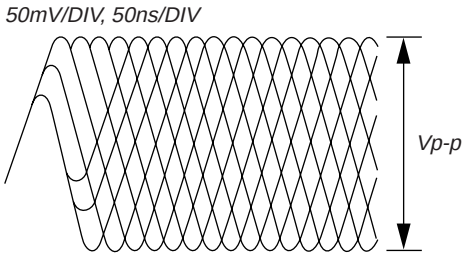
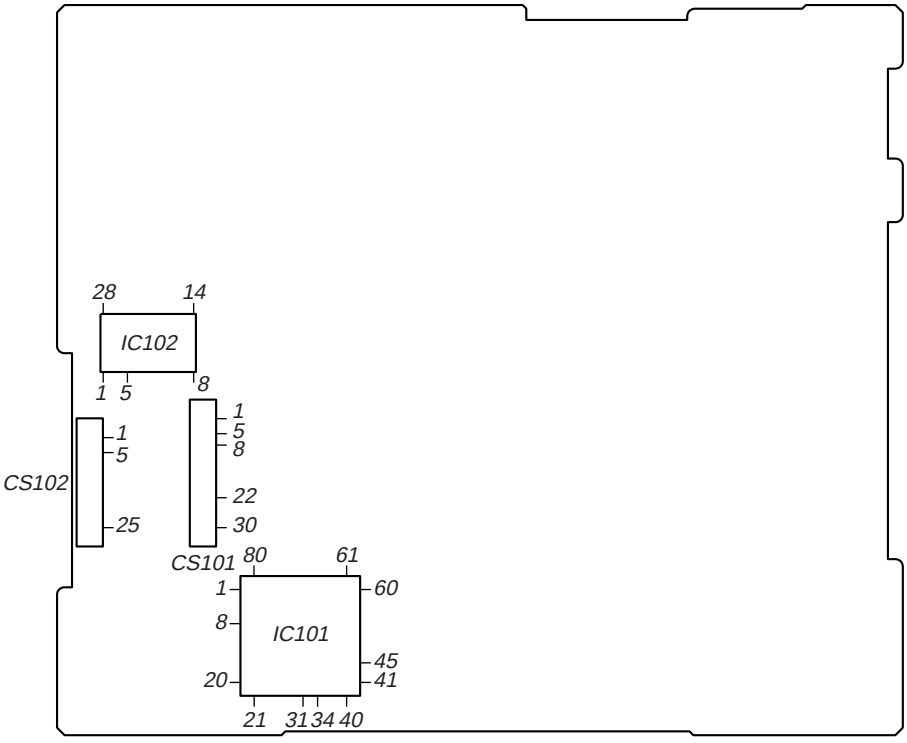


Fig. 5

Vp-p value:
DVD disc : approx. 2V
CD disc : approx. 2.5V
CD-RW disc : approx. 1.5V

Connecting Location:

– MAIN BOARD (Side A) –



REPLACEMENT OF MAIN BOARD

On this set, the MAIN board has been changed in the midway of production.
Also, along with this change, the ADD board may be added depending on the type.
In replacing the MAIN board, refer to the following.

1. How to Identify The Type

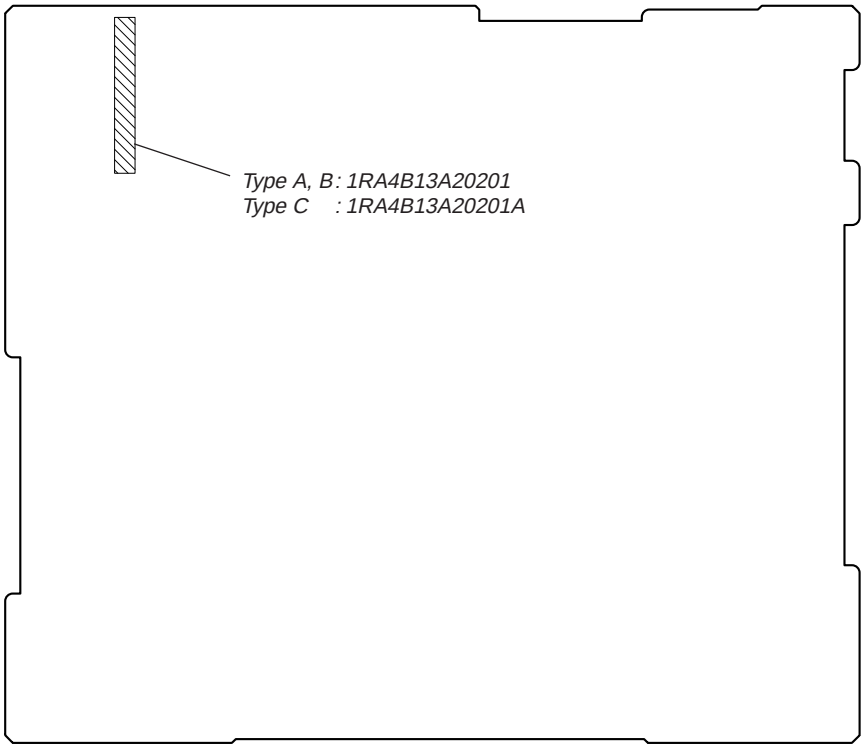
The following three types are available according to the serial numbers.

Serial No.	Types	ADD board	MAIN board
011450 or smaller	Type A	None	(Former) 9-885-018-15
011451 to 015431	Type B	Mount	
015432 or larger	Type C	None	(New) 9-885-071-75

Note: New MAIN board may be delivered when ordering former MAIN board.
Before starting the repair, be sure to check the type of MAIN board delivered, and perform the work according to the type.

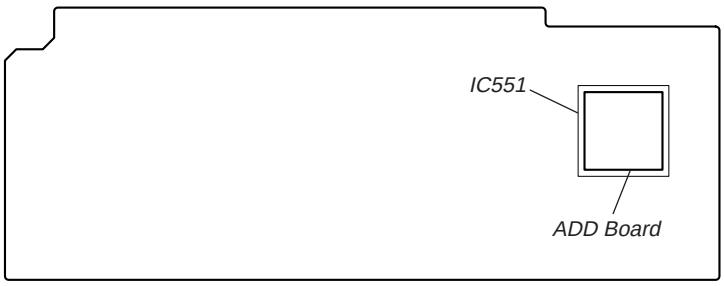
New/former type discrimination for the MAIN board:

– MAIN Board (Side A) –



Circuit Boards Location for the ADD board (Type B only):

– MPEG Board (Component Side) –



- **Type A**

Both former and new MAIN boards are replaceable.

- **Type B**

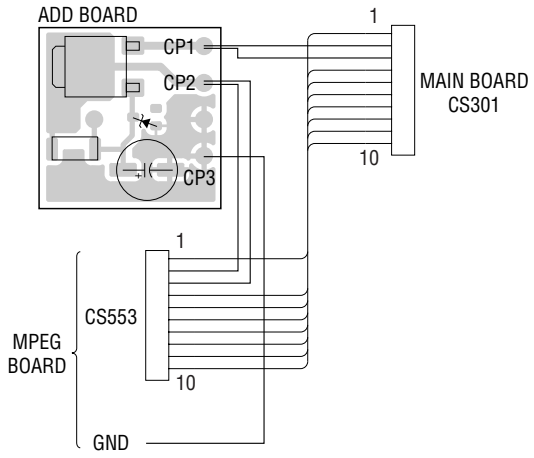
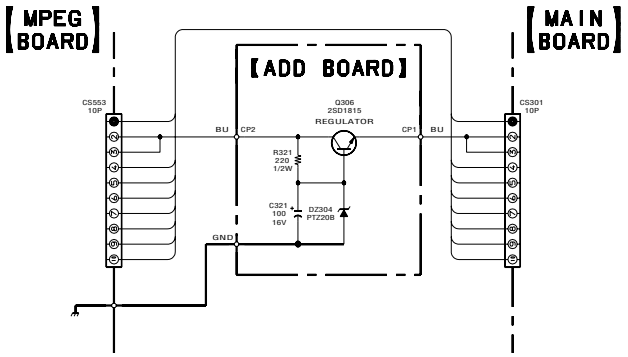
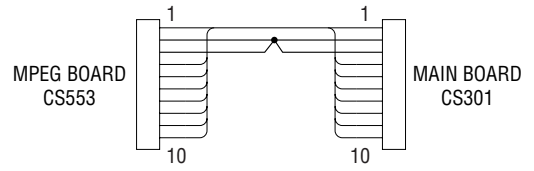
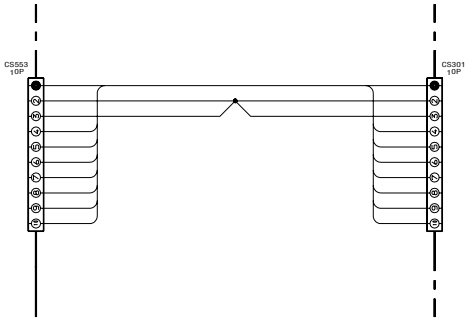
Both former and new MAIN boards are replaceable, but the ADD board has been added, and thus remove the ADD board at the replacement.
For the ADD board removing method, see “2. How to remove the ADD board”.
Also, the ADD board is mounted on the MPEG board, and therefore remove the ADD board if the MPEG board is replaced, or IC551 on the MPEG board is replaced.

- **Type C**

Only new MAIN board (9-885-028-36) is replaceable.

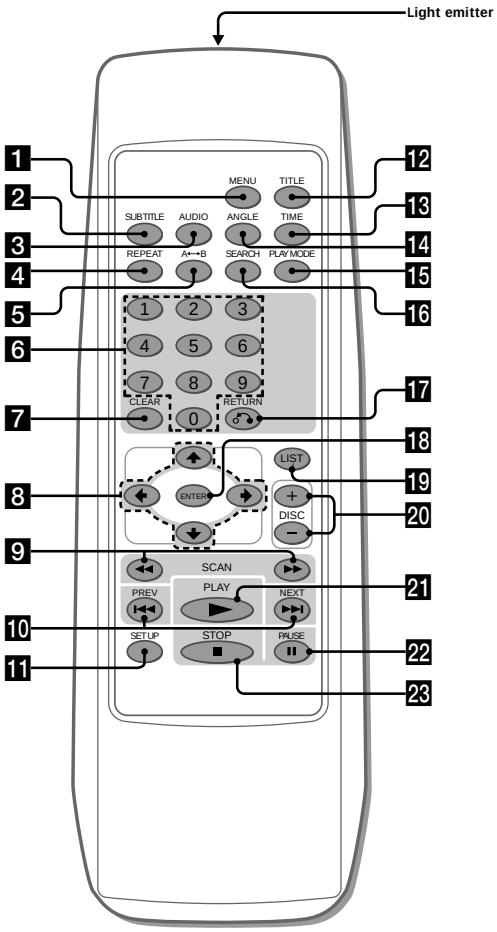
2. How to Remove The ADD Board

Disconnect the lead wires connected to the CP1 (BU) and CP2 (BU) on the ADD board and re-connect them as shown below. Also, disconnect the lead wires (GND) connected to the CP3 on both ADD board side and MPEG board side.

	Printed Wiring Board	Schematic Diagram
With ADD Board		
Without ADD Board		

Location of controls

Wireless remote commander



1 MENU button 30, 33, 34
Press MENU to display the recorded DVD and Video CD menu.

2 SUBTITLE button 29
Press SUBTITLE to change the subtitle languages while playing a DVD.

3 AUDIO button
- DVD 31
  Press AUDIO to change the Audio Language.
- Video CD/Audio CD 32
  Press AUDIO to change the Audio Output Method.

4 REPEAT button
- DVD 19
  Press REPEAT to play a title or a chapter repeatedly.
- Video CD/Audio CD 19
  Press REPEAT to play the entire tracks of a disc or a track.

5 A↔B (A-B repeat) button
- DVD/Video CD 20
  Press A↔B to play your favorite scene repeatedly.
- Audio CD 20
  Press A↔B to play your favorite passage of songs.

6 Number buttons 23, 28, 29, 33, 42, 44, 45
Press the number buttons to input numbers.

7 CLEAR button 23, 28, 29, 33, 42, 44, 45
Press CLEAR to clear the wrong number you entered.

8 Cursor buttons 19, 23, 26, 27, 28, 29, 30, 31, 33, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47
Press the cursor buttons to select the items.

9 SCAN buttons 17, 21
Press ▶▶ for fast forward playback.
Press ◀◀ for fast rewind playback.
- DVD/Video CD 21
  Press ❚❚ (PAUSE), then press ▶▶/◀◀ for slow playback.

10 PREV/NEXT button 16, 17, 21
Press ▶▶| to go to the next chapter, track, or scene.
Press |◀◀ to go back to the previous chapter, track or scene.
- DVD/Video CD 21
  Press ❚❚ (PAUSE), then press ▶▶| to play pictures frame by frame.

11 SET UP button 36, 37, 38, 39, 41, 43, 44, 45, 46, 47
Press SET UP when you want to change the settings, such as DVD Menu Language, Audio Language, Subtitle Language, and so on.

12 TITLE button 30
Press TITLE to display the title menu.

13 TIME button 27, 28
Press TIME to display the elapsed/remaining time of items such as title, chapter, track, and disc.

14 ANGLE button 31
Press ANGLE to select the pictures of a scene viewed from the multiple angle during a DVD playback.

15 PLAY MODE button 22, 23, 24
- Audio CD
  Press PLAY MODE to select your favorite playback mode.

16 SEARCH button 28, 29
Press SEARCH to specify a desired point on a disc by title, chapter, track , or time.

17 RETURN button 26, 27, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47
Press RETURN to come back to the normal playback mode.

18 ENTER button 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47
Press ENTER to execute the items or settings.

19 LIST button 26, 27
Press LIST to display the list of discs contained in the magazine.

20 DISC (+/–) button 16
Press DISC to select your favorite disc.

21 PLAY button 16, 17, 21, 23, 24, 33, 34, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47
Press PLAY to play a disc.

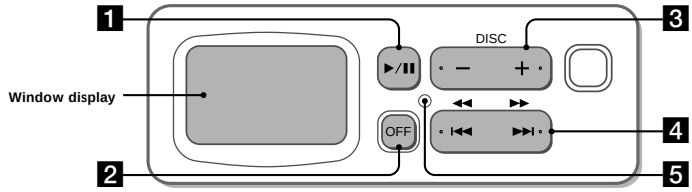
22 PAUSE button 16, 17, 21
Press PAUSE to pause playback.

23 STOP button 16, 17, 23, 33, 34, 36
Press STOP to stop playback.

Caution
When you want to turn on the unit, you have to press ►/❚❚* on the wired remote commander. See "1 ►/❚❚ button" of the wired remote commander (page 10).
* You can also press PLAY on the wireless remote commander for start-up.

Location of controls

Wired remote commander



1 ▶/II button 14, 16
— For starting up the unit
Press ▶/II*1 for starting up the unit.
*1 You can also press PLAY on the wireless remote commander for start-up.
— PLAY/PAUSE
(equivalent to 21 and 22 on the wireless remote commander)

2 OFF (power off) button 17
Press OFF to turn off the unit

3 DISC (–/+) button 16
(equivalent to 20 on the wireless remote commander)

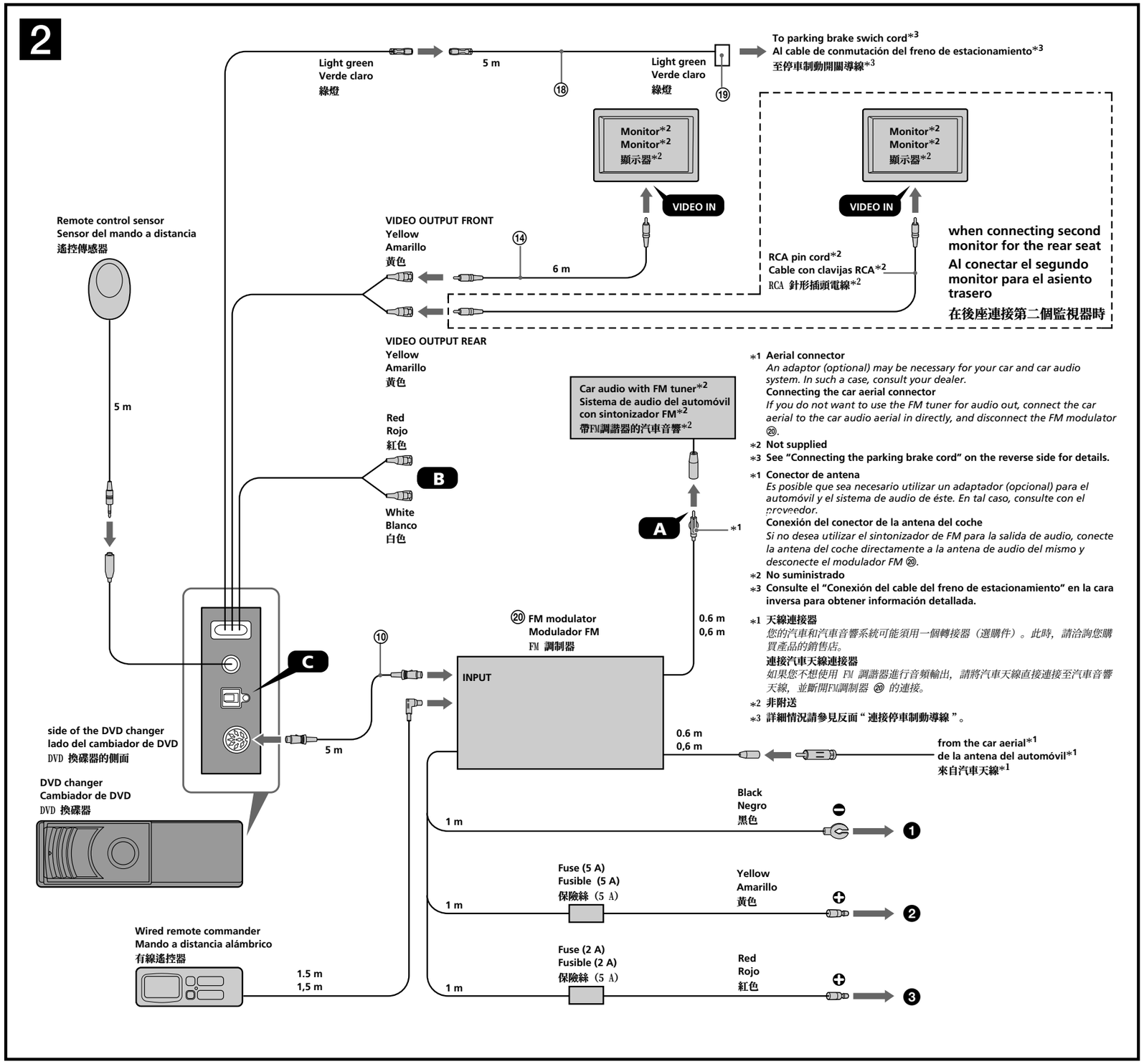
4 SCAN/PREV/NEXT button 16, 17, 18, 21
Press ▶▶I to go to the next chapter, track, or scene.
Press I◀◀ to go back to the previous chapter, track or scene.
- During DVD/Video CD playback
  Press ▶/II (PAUSE), then press ▶▶I down for fast forward playback (only 2 times speed available).
  Press ▶/II (PAUSE), then press I◀◀ down for fast rewind playback (only 2 times speed available).
  Press ▶/II (PAUSE), then press ▶▶I, the chapter search function*2 is available.

*2 Depending on the disc, even if the "You can't operate this command now" message appears on the monitor, you may be able to use the chapter search function (with such discs) by using the wireless remote commander.

Caution for DVD/Video CD playback
If you want to play a disc at various slow speeds (page 21), or frame-by-frame (page 21), use the controls of the wireless remote commander. You cannot perform these functions by using the wired remote commander.

5 Reset button
Press the reset button with a pointed object, such as a ball point pen in the cases below:
— you use the unit for the first time
— you reconnect the wired remote commander to the unit
— you cannot activate a button on the wired remote commander
— the display appears unnatural

Note
The wired remote commander is limited to certain functions only. For more advanced operations, use the wireless remote commander.



Precauciones

- Esta unidad está diseñada para funcionar únicamente con una toma a tierra CC de 12V negativa.
- Antes de realizar las conexiones, desactive el encendido del automóvil para evitar cortocircuitos.
- Conecte los conductores de entrada de alimentación **amarillo** y **rojo** solamente después de haber conectado todos los demás.
- Cerciórese de conectar el conductor de entrada de alimentación rojo a un terminal de alimentación de 12 V positivo que se alimente al poner el interruptor de encendido en la posición para accesorios.
- **Conecte todos los conductores de masa a un punto común.**
- Para su seguridad, el monitor conectado al cable VIDEO OUTPUT FRONT (salida de vídeo frontal) sólo se podrá visualizar cuando el automóvil esté detenido y se haya aplicado el freno de estacionamiento.
  Asegúrese de conectar el cable de estacionamiento ⑱ al cable de conmutación del freno de estacionamiento.

Notas sobre el cable de suministro de alimentación (amarillo)

- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma de los fusibles de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Lista de componentes (1)

Los números de la lista corresponden a los de las instrucciones.

Diagrama de conexión (2)

❶ **a un punto metálico del automóvil**
Conecte en primer lugar el conductor de puesta a masa negro y, después, los conductores de entrada de alimentación amarillo y rojo.

❷ **a un terminal de +12 V que esté permanentemente alimentado**
Asegúrese de conectar en primer lugar el conductor de puesta a masa negro.

❸ **a un terminal de +12 V que se alimente al poner el interruptor de encendido en la posición para accesorios**
Asegúrese de conectar en primer lugar el conductor de puesta a masa negro.

Las conexiones de salida de audio en esta unidad se pueden configurar de varias maneras. Consulte el número de ilustración que corresponda arriba.

Ⓐ **Para la salida de audio del sistema de audio del automóvil con sintonizador FM.**
Conecte el modulador FM al sistema de audio del automóvil.

Ⓑ **Para la salida de audio del sistema de audio del automóvil.**
Conecte el cable con clavijas tipo RCA o el selector de fuente, etc.

Ⓒ **Para la salida de audio del amplificador digital o dispositivo de audio.**
Conecte el cable óptico RC-97/98 (opcional) etc. a un amplificador digital o dispositivo de audio equipado con un decodificador digital Dolby.

Sustitución del fusible

Si el fusible se funde, verifique la conexión de alimentación y sustitúyalo. Si una vez sustituido vuelve a fundirse, puede deberse a un funcionamiento interno defectuoso.

Precaución

Emplee un fusible del amperaje especificado.
El uso de un fusible de amperaje superior puede provocar daños graves.

注意

- 本機只能使用負極接地 12 V DC 電源。
- 連接線路之前，關閉汽車點火裝置以免引起短路。
- **黃色**和**紅色**的電源輸入導線，必須在其它所有線路都接完後才可以連接。
- 紅色電源線必須連接到當汽車點火鑰匙被轉到輔助位置時才呈通電狀態的正 12 V 電源接頭。
- 所有接地線都必須連接到一共同接地點。
- 為了安全，您只能在停車時並使用了停車製動後，才能觀看連接在 VIDEO OUTPUT FRONT 電纜上的監視器。
  請確信將停車制動導線 ⑱ 連接至汽車的停車製動開關導線。

電源導線須知（黃色）

- 將本機與其它立體聲裝置一起連接使用時，所連接的汽車電路額定值必須大於所有個裝置保險絲容量的總和。
- 當汽車電路額定值不夠大時，請將本機直接與電池相連接。

零件一覽表（1）

圖示數字與說明書中的數字是一致的。

線路連接圖（2）

❶ **至汽車金屬部份**
首先連接黑色地線，然後連接黃色和紅色電源輸入導線。

❷ **至始終處於通電狀態的 +12 V 電源接頭**
務請首先連接黑色地線。

❸ **至 +12 V 電源接頭，當汽車點火開關處於輔助位置時此端子才呈通電狀態。**
務請首先連接黑色地線。

本裝置的音頻輸出連接有以下幾種方式。請參見上面對應號碼的圖示。

Ⓐ **從帶 FM 調制器的汽車音響輸出。**
將 FM 調制器連接到汽車音響。

Ⓑ **從汽車音響輸出。**
將 RCA 針形導線連接至汽車音響或音源選擇器等裝置。

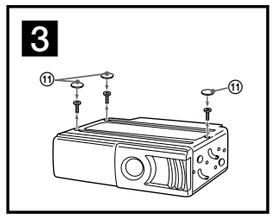
Ⓒ **從數碼放大器或音頻裝置輸出。**
將光纜 RC-97/98（選購件）等連接到數碼放大器或帶杜比數碼解碼器的音頻裝置。

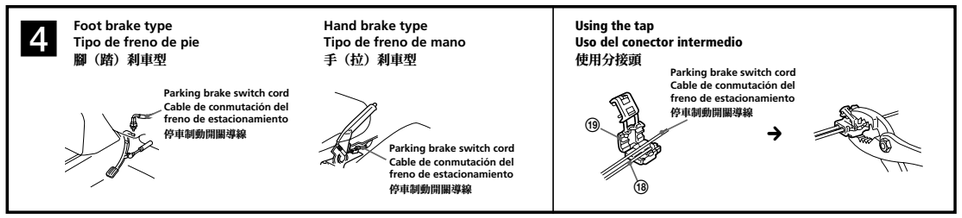
更換保險絲

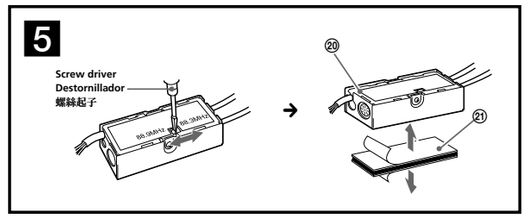
若保險絲燒斷了，請先檢查電源線的連接情況正常與否，然後才更換保險絲。更換以後，如果保險絲又燒斷了，則可能是機內有故障。

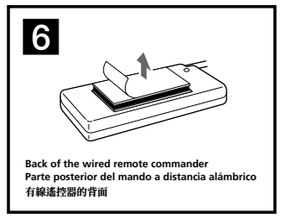
警告

請使用指定的額定安培數的保險絲。
使用超過額定值的保險絲可能會引起嚴重損傷。

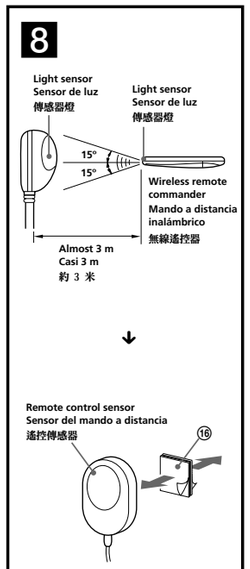


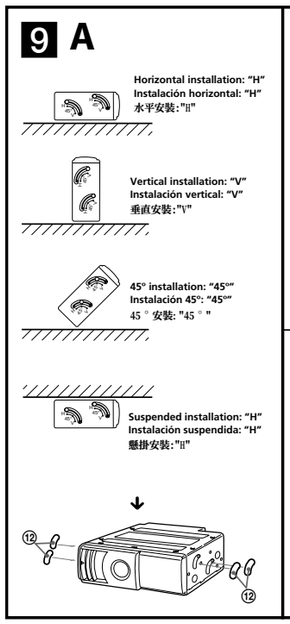


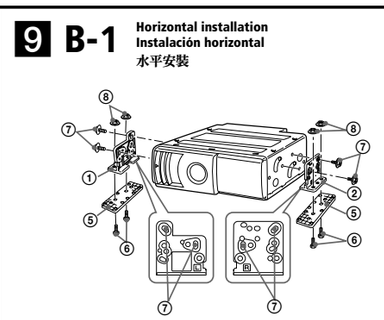


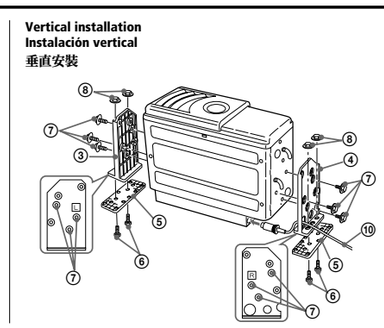


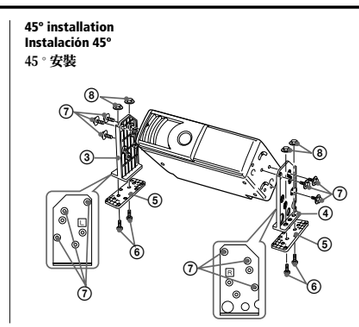


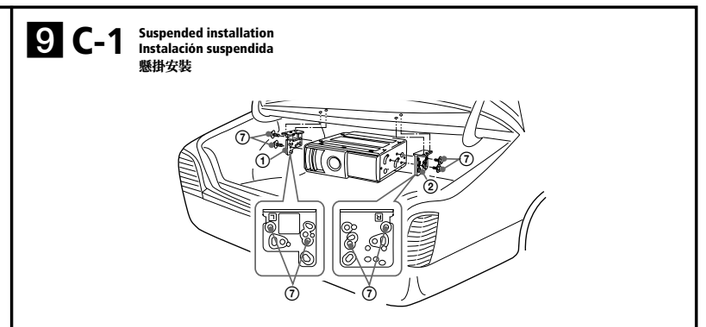


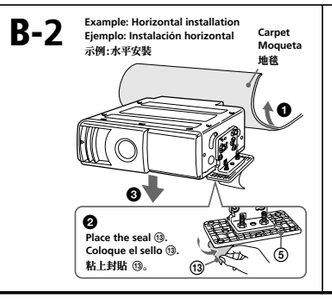


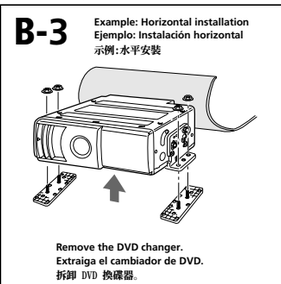


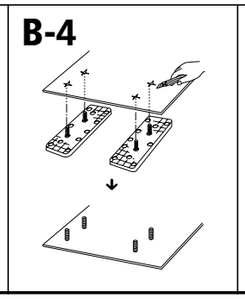


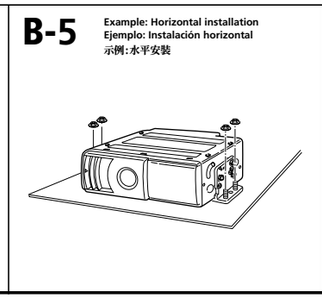


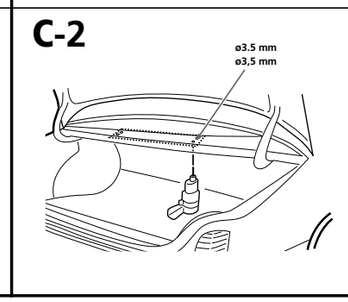


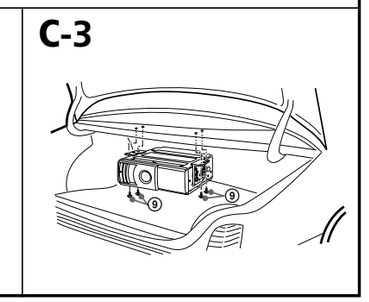












Precaution

- Choose the mounting location carefully, observing the following:
  - — Do not install the unit where;
    - the ambient temperature exceeds 55 °C.
    - it will be exposed to direct sunlight or hot air from a heater.
    - it will be exposed to rain, water, or high humidity.
    - it will be exposed to a lot of dust.
    - it will be subject to excessive vibration.
  - — The fuel tank should not be damaged by the tapping screws.
  - — There should be no wire harnesses or pipelines under the place where you are going to install the unit.
  - — The spare tyre, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.

Notes

- *Be sure to use only the supplied mounting hardware for a safe and secure installation.*
- *Make holes of ø3.5 mm only after making sure there is nothing on the other side of the mounting surface.*

Removing the screws (3)

- On the bottom of this unit are three screws for shipping purpose only. Be sure to remove them before installing.
- Place the seals ⑪ over any holes not used for installation and the three screws used for shipping. These seals help to prevent dust building up, which could cause a malfunction.

Note

Keep the three screws for shipping purpose, it will not get lost.

Connecting the parking brake cord (4)

Be sure to connect the parking cord ⑱ (light green) to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car, please consult your car dealer or your nearest Sony dealer for further details.

Using the tap

Attach to the tap ⑱ the end of the parking cord ⑱ (light green) and the parking brake switch cord.

Note

If the parking brake switch cord is too thin, connect the parking cord ⑱ to the parking brake switch cord directly without using the tap ⑱.

FM modulator (5)

(For audio out from the car audio with FM tuner.)

- You can listen to the FM tuner of your car audio using the audio player of this unit. If a clear signal cannot be obtained on 88.9 MHz (factory setting), change the position of the frequency select switch of the FM modulator to 88.3 MHz.
  Use a screw driver to change the position of the frequency select switch.
- After checking the frequency, use the cleaning cloth ⑰ to wipe the surface where the velcro tape ㉑ will be applied, then dry it completely before installing. Be sure to install it in a position that will not interfere with driving.

Wired remote commander (6)

Use the cleaning cloth ⑰ to wipe the surface where the velcro tape will be applied, then dry it completely before installing. Be sure to install it in a position that will not interfere with driving.

Wireless remote commander (7)

Use the cleaning cloth ⑰ to wipe the surface where the velcro tape ㉑ will be applied, then dry it completely before installing. Be sure to install it in a position that will not interfere with driving.

Remote control sensor (8)

- Before installing the remote control sensor, confirm the maximum signal distance of remote control. The remote control can be used up to approximately 3 m from the light sensor, in a conical area spreading roughly 15° from the light sensor.
- Use the cleaning cloth ⑰ to wipe the surface where the velcro tape ⑯ will be applied, then dry it completely before installing. Be sure to install it in a position that will not interfere with driving.
- If necessary, secure the remote control sensor cord with the cord clamp ⑮.

How to install the DVD changer (9)

When you install the DVD changer, be careful not to damage wiring or equipment on the other side of the mounting surface.

Before installing the DVD changer (9 A)

- Before installing this unit, set the built-in anti-vibration board as illustrated, depending on the angle.
- After setting the angle, place the seals ⑫ over any holes on the side of this unit. These seals help to prevent dust building up, which could cause a malfunction.

Note for vertical installation (9 B-1)

Before installing in the vertical position, pass the cable ⑲ through the hole at the lower left of the bracket ④.

When the unit is to be installed under the rear tray or in the trunk, observe the following. (9 C)

- Choose the mounting location carefully so that the unit can be installed horizontally.
- Make sure the unit does not hinder the action of the torsion bar spring, hinge, etc. of the deck lid.

Note

Make installation holes in the rear dash, after making sure there is nothing obstructing.

Precauciones

- Elija cuidadosamente el lugar de montaje teniendo en cuenta lo siguiente:
  - — No instale la unidad donde;
    - la temperatura ambiente sea superior a 55 °C.
    - quede expuesta a la luz solar directa o al aire caliente de un calefactor.
    - quede expuesta a lluvia, agua o mucha humedad.
    - quede expuesta a polvo excesivo.
    - quede sujeta a vibraciones excesivas.
  - — El depósito de combustible no deberá dañarse con los tornillos autorroscantes.
  - — No deberá haber cables ni tubos debajo del lugar en el que vaya a instalar la unidad.
  - — Ni los tornillos ni la propia unidad deberían dañar o interferir con la rueda de repuesto, las herramientas o demás equipos del portaequipajes o situados debajo de éste.

Notas

- *Para realizar una instalación firme y segura, cerciórese de utilizar solamente la ferretería de montaje suministrada.*
- *Antes de hacer los orificios de ø3,5 mm, compruebe que no haya nada en el otro lado de la superficie de montaje.*

Retirar los tornillos (3)

- En la parte inferior de esta unidad hay tres tornillos que sólo se usan por motivos de transporte. Asegúrese de extraerlos antes de realizar la instalación.
- Coloque los sellos ⑪ sobre cualquier orificio que no se utilice para la instalación y los tres tornillos usados para el transporte. Estos sellos ayudan a evitar que se acumule polvo, lo que podría resultar en un funcionamiento defectuoso.

Nota

Guarde los tres tornillos para el transporte para no perderlos.

Conexión del cable del freno de estacionamiento (4)

Asegúrese de conectar el cable de freno de estacionamiento ⑱ (verde claro) al cable de conmutación del freno de estacionamiento. La posición de montaje del cable de conmutación del freno de estacionamiento depende de cada automóvil. Consulte el diagrama de conexión del sistema más adelante y con el concesionario automovilístico o con el proveedor Sony más próximo para obtener información detallada.

Uso del conector intermedio

Conecte al conector intermedio ⑱ el extremo del cable de estacionamiento ⑱ (verde claro) y el cable de conmutación del freno de estacionamiento.

Nota

Si el cable de conmutación del freno de estacionamiento es demasiado fino, conecte el cable de estacionamiento ⑱ directamente al cable del freno de estacionamiento sin utilizar el conector intermedio ⑱.

Modulador FM (5)

(Para la salida de audio del sistema de audio del automóvil con sintonizador FM.)

- El sintonizador FM del sistema de audio del automóvil se puede escuchar usando el reproductor de audio de esta unidad. Si no se puede obtener una señal nítida a 88,9 MHz (ajuste de fábrica), cambie a 88,3 MHz la posición del interruptor de selección de frecuencia situado en el modulador FM. Utilice un destornillador para cambiar la posición del interruptor de selección de frecuencia.
- Después de comprobar la frecuencia, use el paño de limpieza ⑰ para limpiar la superficie donde se aplicará la cinta de velcro ㉑. Luego déjela secar completamente antes de aplicar la cinta. Asegúrese de aplicarla en una posición que no afecte la manera de conducir.

Mando a distancia alámbrico (6)

Use el paño de limpieza ⑰ para limpiar la superficie donde se aplicará la cinta de velcro. Luego déjela secar completamente antes de aplicar la cinta. Asegúrese de aplicarla en una posición que no afecte la manera de conducir.

Mando a distancia inalámbrico (7)

Use el paño de limpieza ⑰ para limpiar la superficie donde se aplicará la cinta de velcro ㉑. Luego déjela secar completamente antes de aplicar la cinta. Asegúrese de aplicarla en una posición que no afecte la manera de conducir.

Sensor del mando a distancia (8)

- Antes de instalar el sensor de mando a distancia, confirme su distancia máxima de señal. El mando a distancia se puede usar hasta una distancia máxima de señal de 3 m del sensor de luz y dentro de un área cónica que se extiende aproximadamente 15° del sensor de luz.
- Use el paño de limpieza ⑰ para limpiar la superficie donde se aplicará la cinta de velcro ⑯. Luego déjela secar completamente antes de aplicar la cinta. Asegúrese de aplicarla en una posición que no afecte la manera de conducir.
- Si fuera necesario, fije el cable de sensor del mando a distancia utilizando la presilla del cable ⑲.

Forma de instalar el cambiador de DVD (9)

Cuando instale el cambiador de DVD, cerciórese de no dañar el cableado ni los equipos que puedan encontrarse en la otra parte de la superficie de montaje.

Antes de la instalación del cambiador de DVD (9 A)

- Antes de instalar esta unidad, configure el tablero antivibración incorporado tal y como se indica en la ilustración, según el ángulo.
- Una vez configurado el ángulo, coloque los sellos ⑫ sobre los orificios de la parte lateral de esta unidad. Estos sellos ayudan a evitar que se acumule polvo, lo que podría resultar en un funcionamiento defectuoso.

Nota sobre la instalación vertical (9 B-1)

Antes de instalar el cargador en posición vertical, pase el cable ⑲ por el orificio de la parte inferior derecha de la escuadra ④.

Cuando vaya a instalar la unidad debajo de la bandeja trasera o en el portaequipajes, tenga en cuenta lo siguiente. (9 C)

- Elija cuidadosamente el lugar de montaje de forma que la unidad pueda instalarse horizontalmente.
- Asegúrese de que la unidad no dificulta la acción del resorte de la barra de torsión, la bisagra, etc. de la tapa de la platina.

Nota

Perfore los agujeros de instalación en el salpicadero posterior, asegurándose de que no haya ningún obstáculo.

使用前注意事項

- 請注意下列各點仔細選擇合適的安裝位置：
  - — 不要把機器安裝在：
    - 周圍溫度超過 55 °C 的地方。
    - 直接照射到陽光的地方或暴露在加熱器的熱氣中。
    - 暴露於雨中、水中、或高濕處。
    - 極多塵埃的地方。
    - 會受到過大震動的地方。
  - — 不可讓攻絲螺釘傷到油箱。
  - — 要安裝機器的位置底下，不可有配電線或配管。
  - — 螺絲釘或機器本身切勿傷及或妨礙行李箱裡或下面的備用輪胎、工具或其他裝置。

註

- *安裝時，只可以使用附帶的零件以確保安全和穩固的安裝。*
- *在確認安裝面反側無其他導線等物後，方可鑽開數個直徑為 3.5 mm 的小孔。*

卸下螺絲（3）

- 本裝置底部的三個螺絲僅為運輸之用，安裝前應先將其拆下。
- 用封貼 ⑪ 將所有安裝中不需要的孔和用於運輸的三個螺絲孔封住。封貼可以防止灰塵進入而造成故障。

註

將三個用於運輸的螺絲保存好，不要遺失。

連接停車制動導線（4）

務必將停車導線 ⑱（綠燈）連接至停車制動開關導線上。停車制動開關導線的安裝位置視您的汽車而定。詳細情況請向您的汽車經銷商或就近向 Sony 經銷商咨詢。

使用分接頭

用分接頭 ⑲ 連接停車導線 ⑱（綠燈）的末端和停車制動開關導線。

註

如果停車制動開關導線很細，可不用分接頭 ⑲ 而直接將停車導線 ⑱ 連接至停車制動開關導線。

FM 調制器（5）

(從帶 FM 調諧器的汽車音響輸出。)

- 您可以用本裝置的音頻播放機來收聽汽車音響的 FM 調諧器。如果無法在 88.9 MHz（出廠設定）獲得清晰的訊號，請將 FM 調制器的頻率選擇開關位置改變到 88.3 MHz。
  用螺絲起子改變頻率選擇開關的位置。
- 查對頻率後，用乾淨的軟布 ⑰ 擦拭要貼上魔術貼 ㉑ 的表面，待完全乾後再安裝。請確信安裝位置不會影響駕駛。

有線遙控器（6）

用乾淨的軟布 ⑰ 擦拭要貼上魔術貼的表面，待完全乾後再安裝。請確信安裝位置不會影響駕駛。

無線遙控器（7）

用乾淨的軟布 ⑰ 擦拭要貼上魔術貼 ㉑ 的表面，待完全乾後再安裝。請確信安裝位置不會影響駕駛。

遙控傳感器（8）

- 在安裝遙控傳感器前，請先確認最大遙控訊號距離。遙控器最遠可在距傳感器燈約 3 米，從傳感器燈起以大約 15 ° 角圓錐形發散的區域內使用。
- 用乾淨的軟布 ⑰ 擦拭要貼上魔術貼 ⑯ 的表面，待完全乾後再安裝。請確信安裝位置不會影響駕駛。
- 如有需要，可用導線夾 ⑮ 將遙控傳感器導線固定住。

如何安裝 DVD 換碟器（9）

安裝 DVD 換碟器時，不可傷及安裝處反面的配電線或其他設備。

安裝 DVD 換碟器前（9 A）

- 安裝本裝置前，請根據角度，按照圖示安置內置防震板。
- 設定角度後，用封貼 ⑫ 將本裝置側面的所有孔封住。這些封貼能防止灰塵進入裝置而造成故障。

垂直安裝注意事項（9 B-1）

在垂直安裝之前，請將電纜 ⑲ 穿過位於支架 ④ 左下方的孔。

要把本機安裝在行李箱中或後支架下面時，請注意下列事項。（9 C）

- 仔細選擇安裝位置，以使本機能保持水平安裝。
- 請確認本機器不會妨礙車箱蓋的扭桿彈簧、鉸鏈等的動作。

註

在確信沒有任何障礙物後，在汽車後隔板內鑽安裝孔。

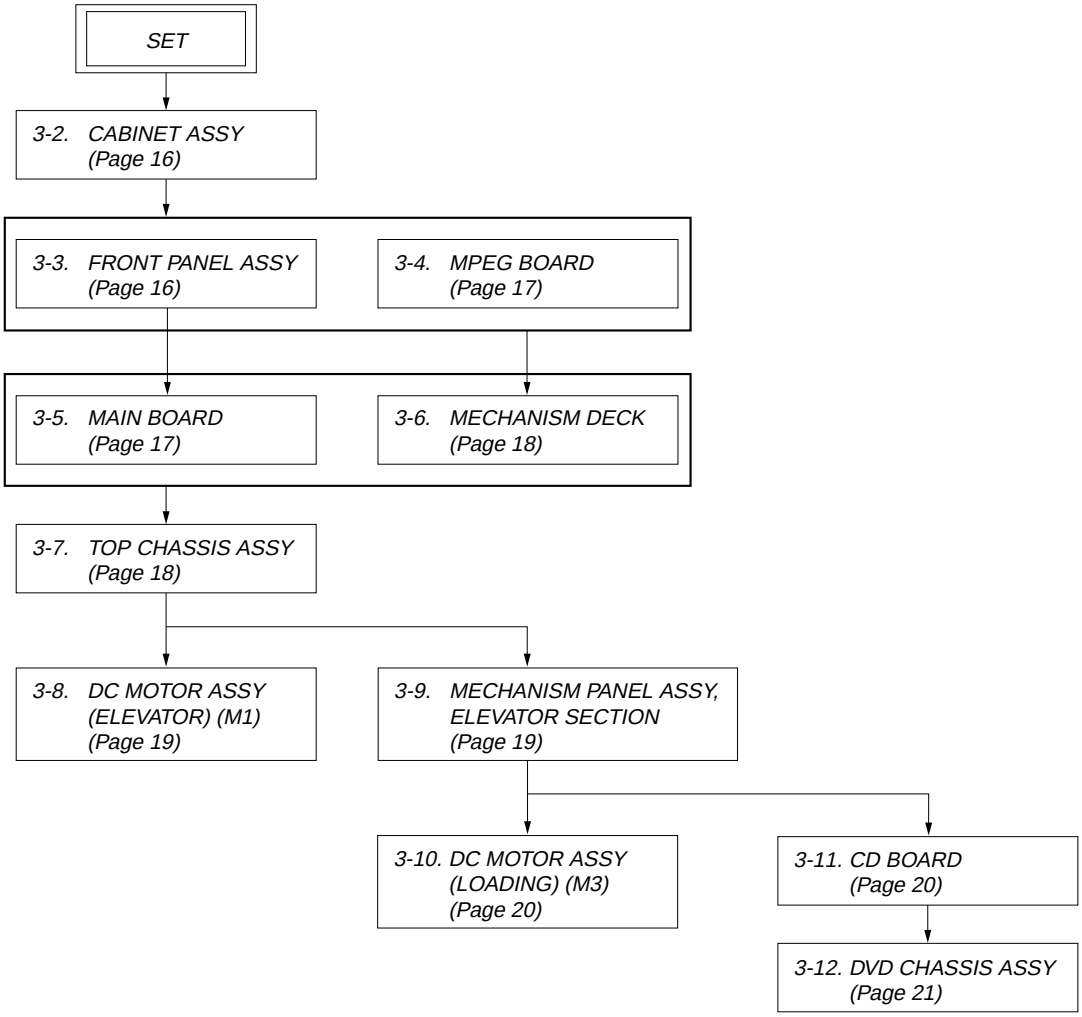
SECTION 3
DISASSEMBLY

• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

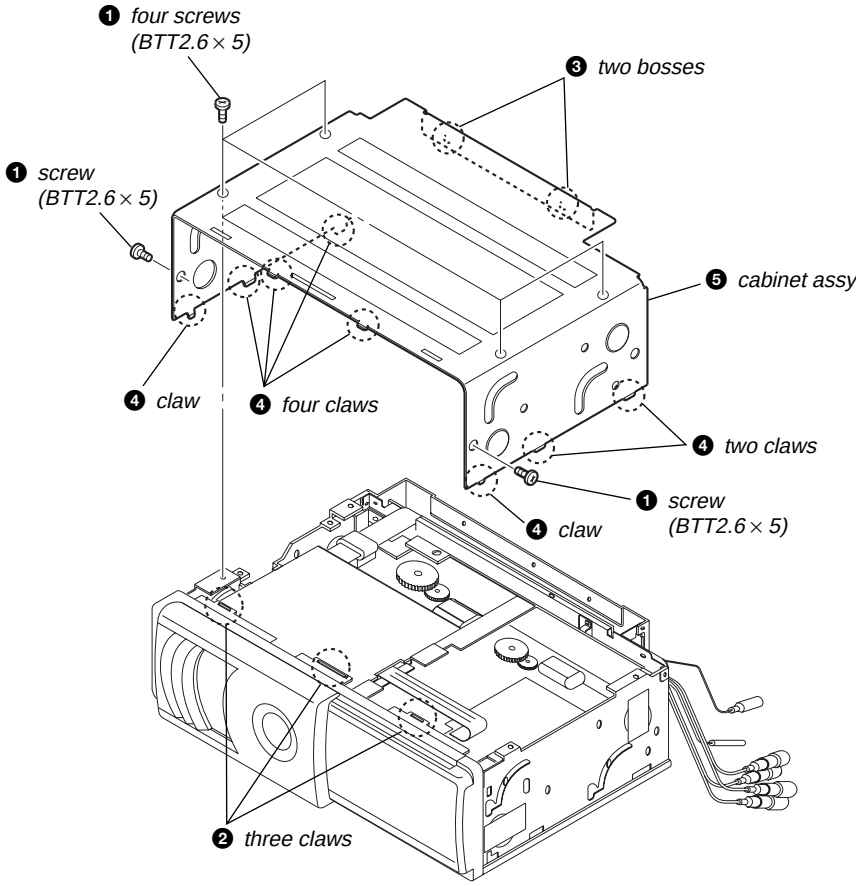
Note 1: *The process described in ⊟ can be performed in any order.*

Note 2: *Without completing the process described in ⊟, the next process can not be performed.*

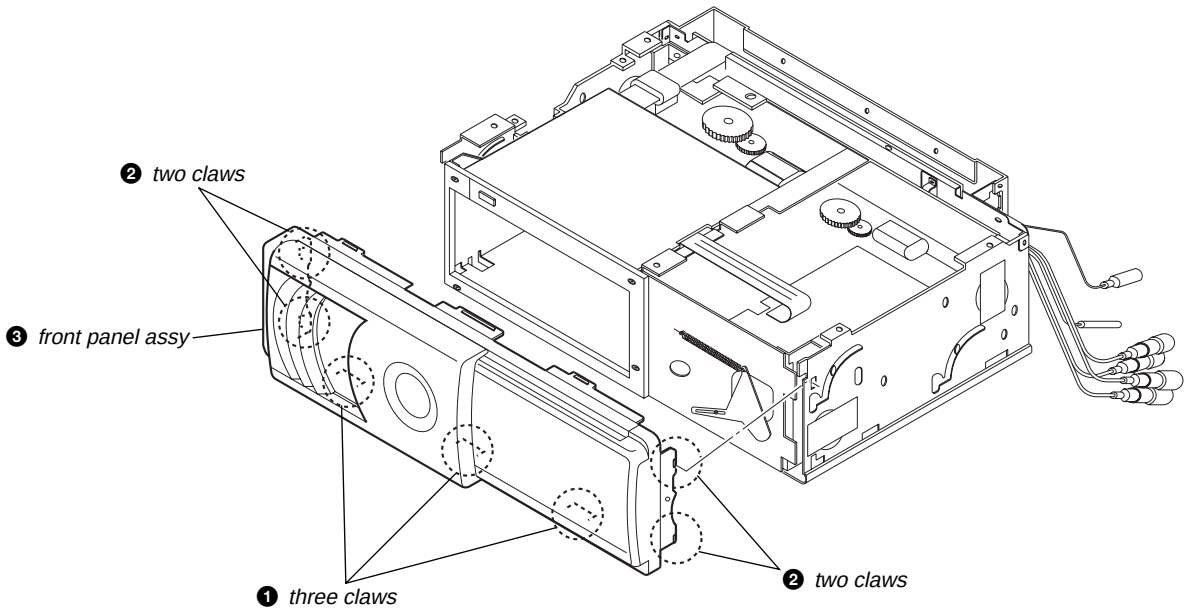


Note: Follow the disassembly procedure in the numerical order given.

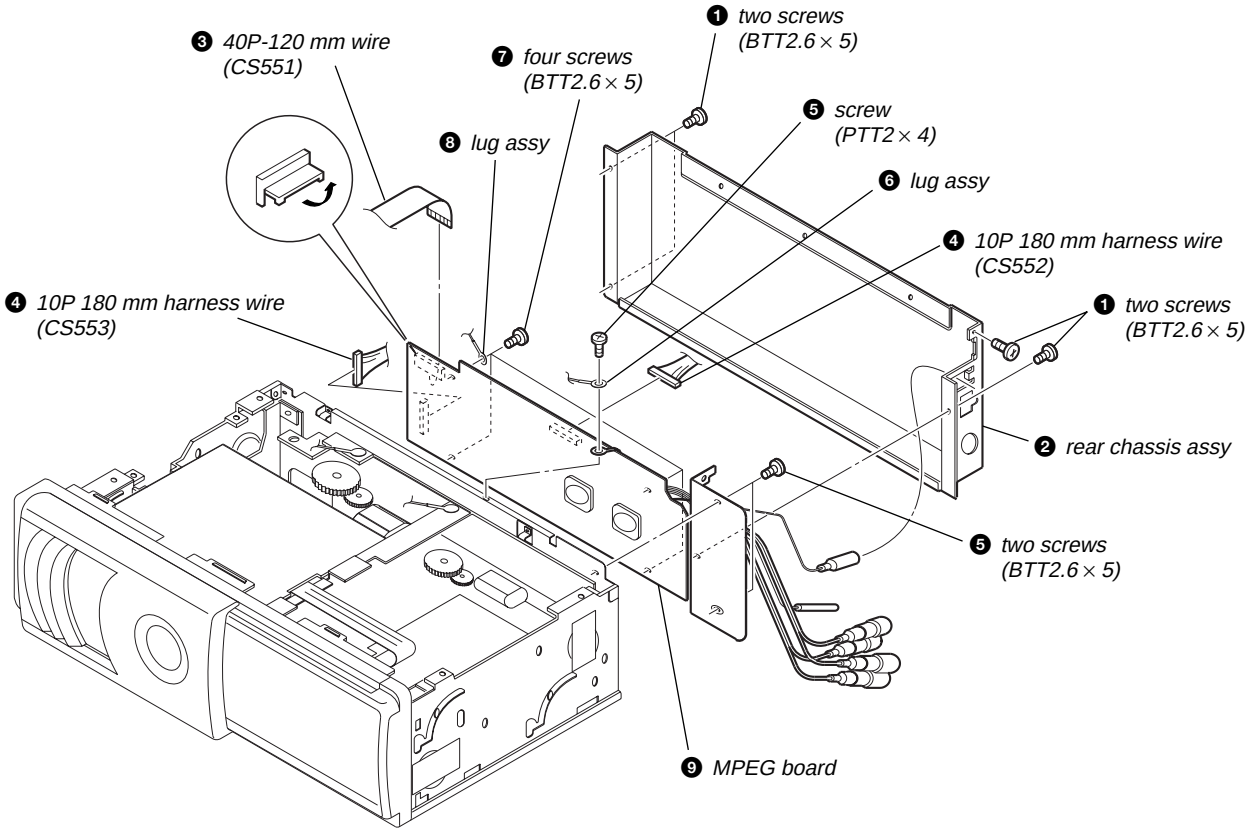
3-2. CABINET ASSY



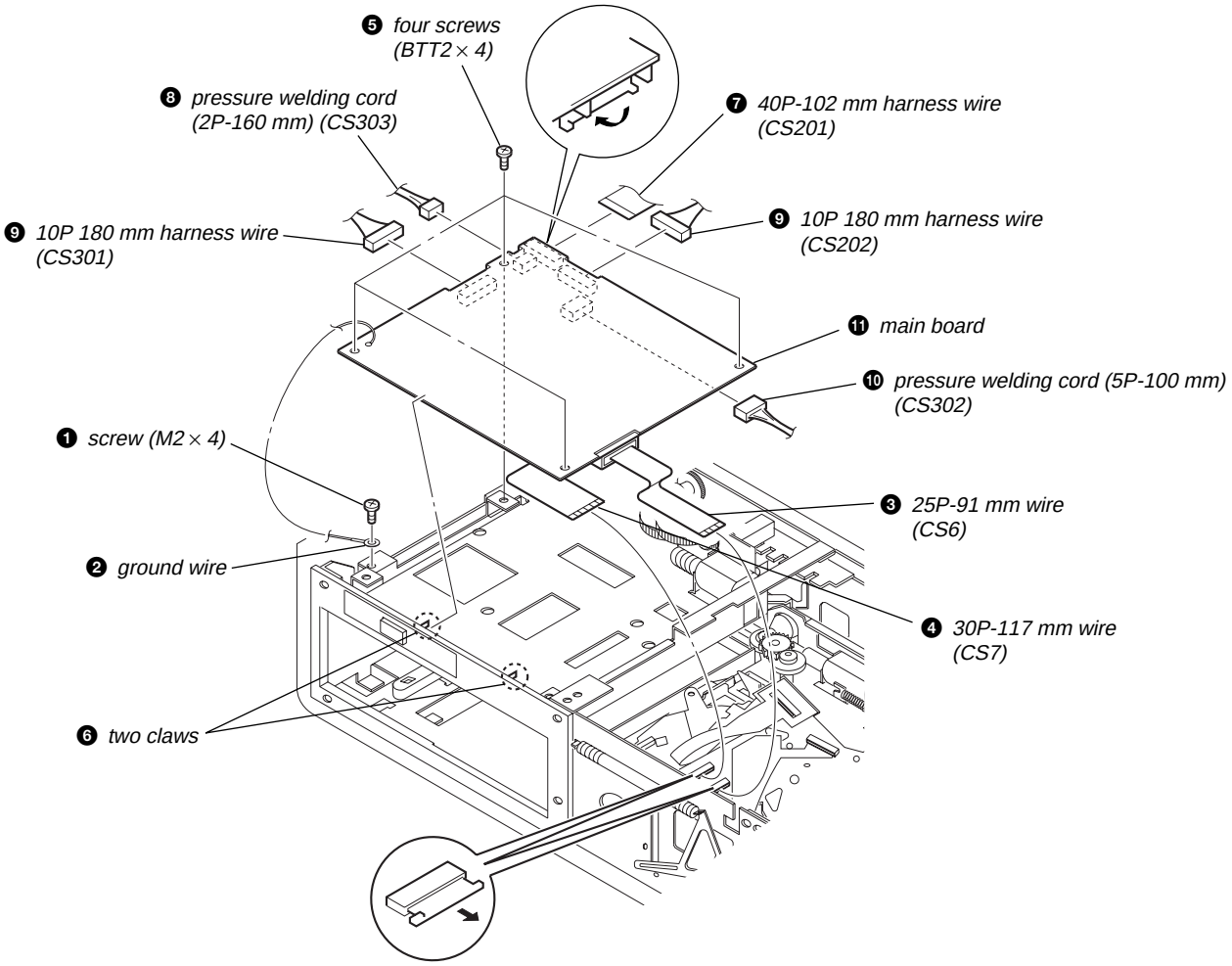
3-3. FRONT PANEL ASSY



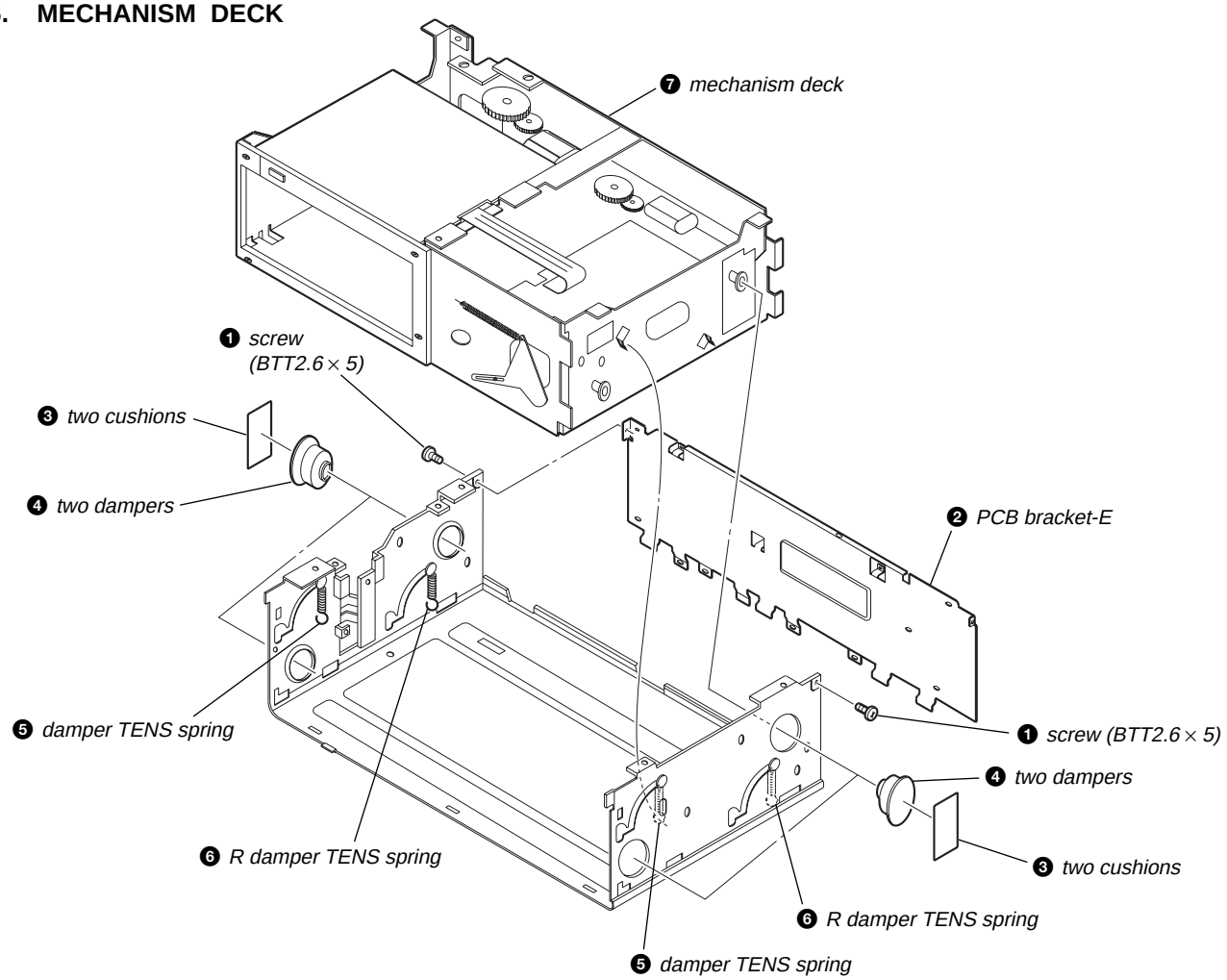
3-4. MPEG BOARD



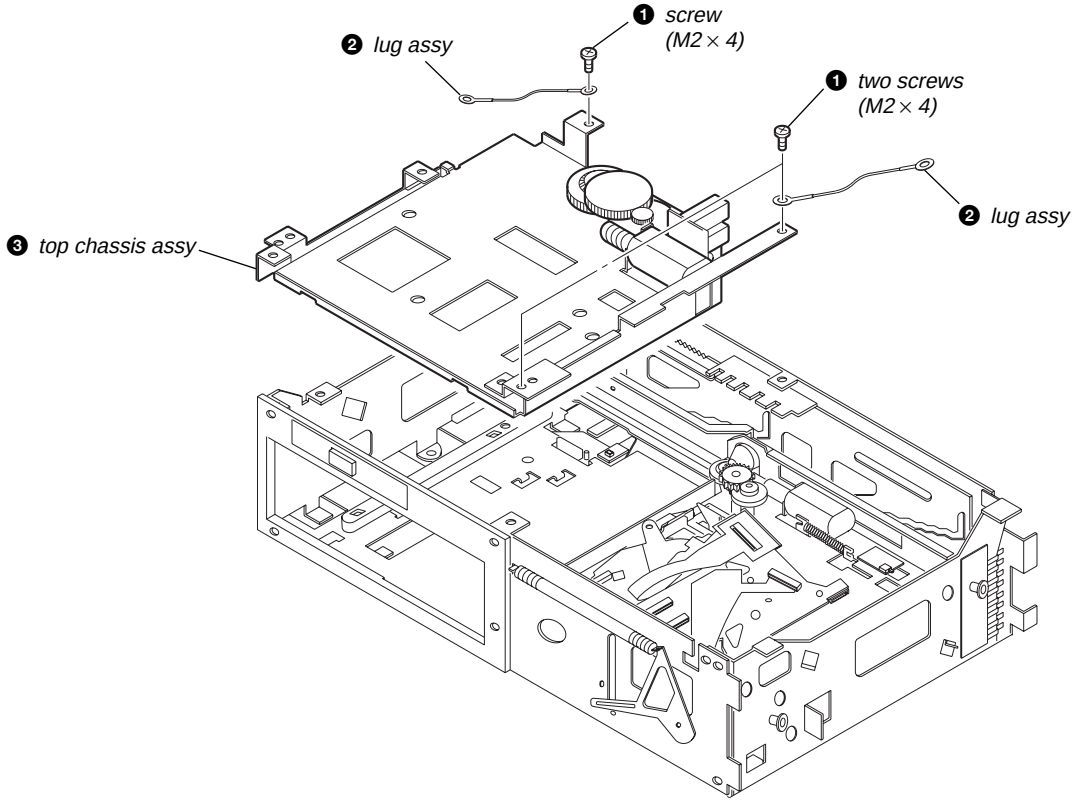
3-5. MAIN BOARD



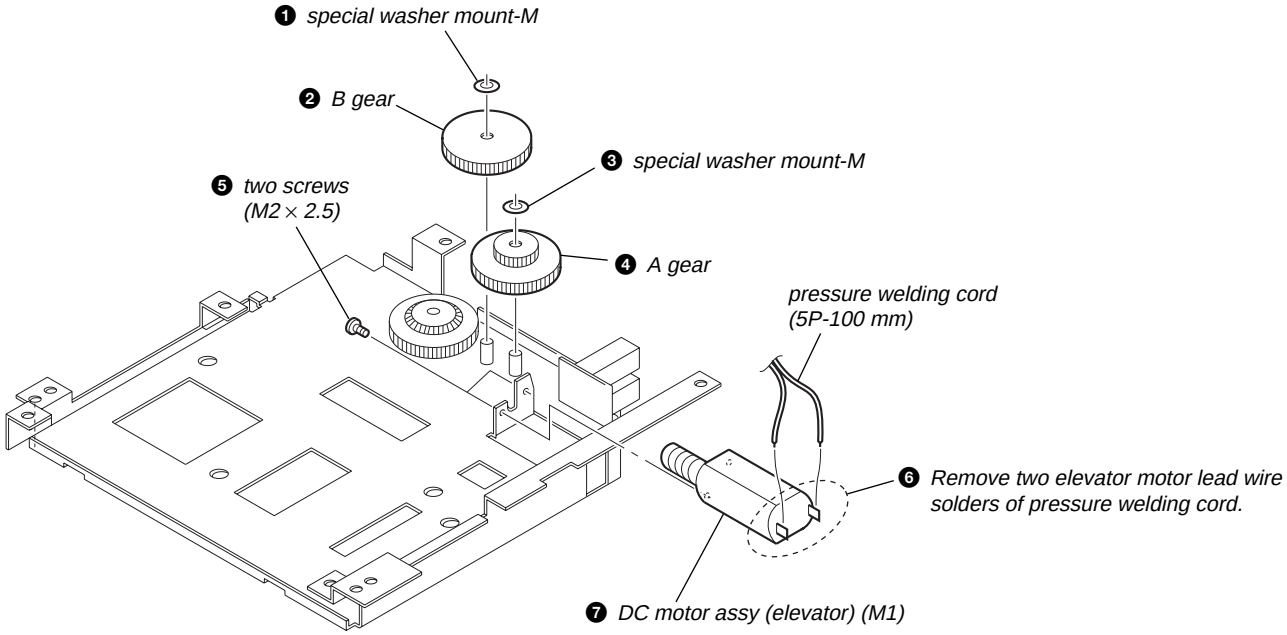
3-6. MECHANISM DECK



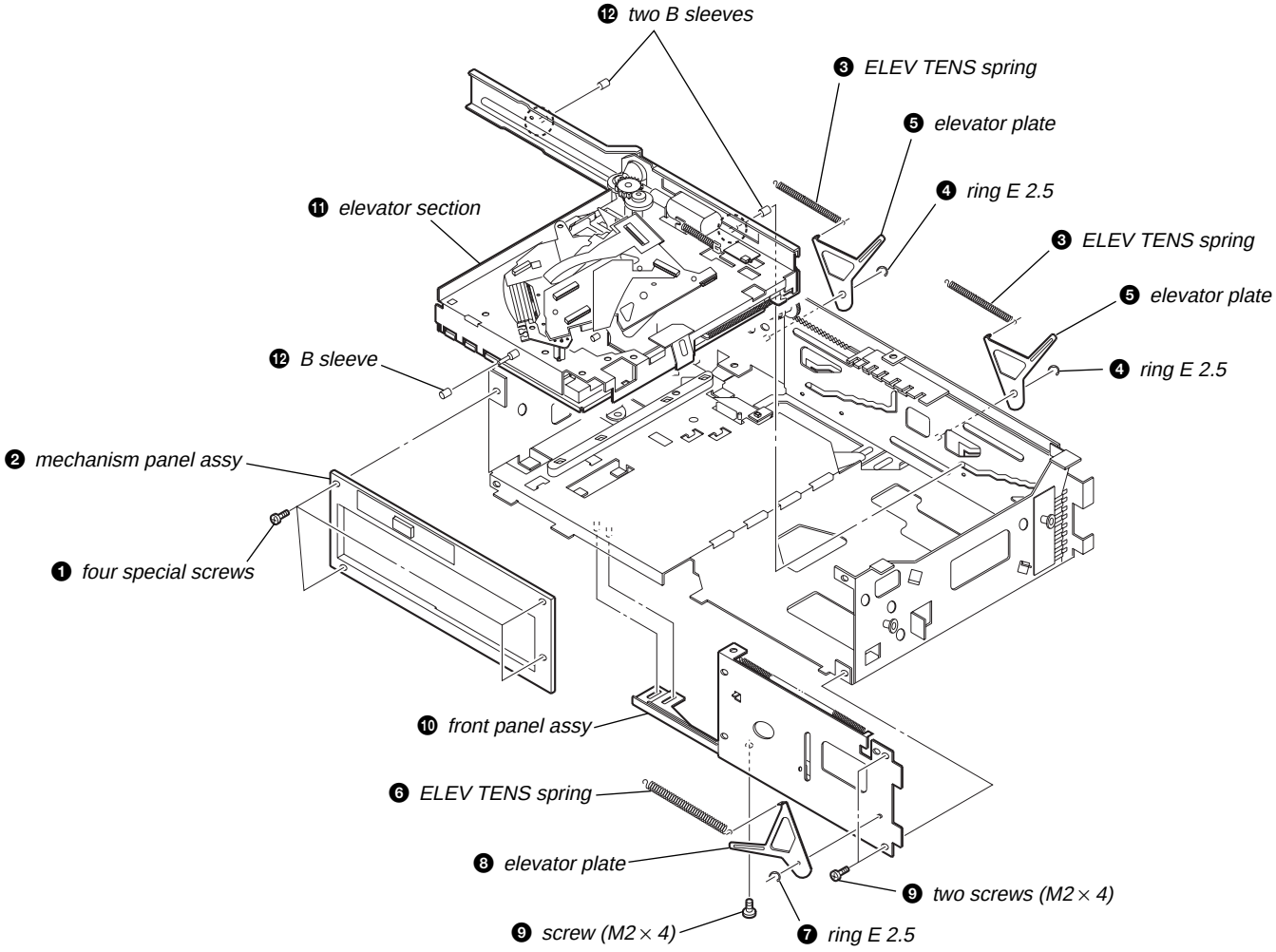
3-7. TOP CHASSIS ASSY



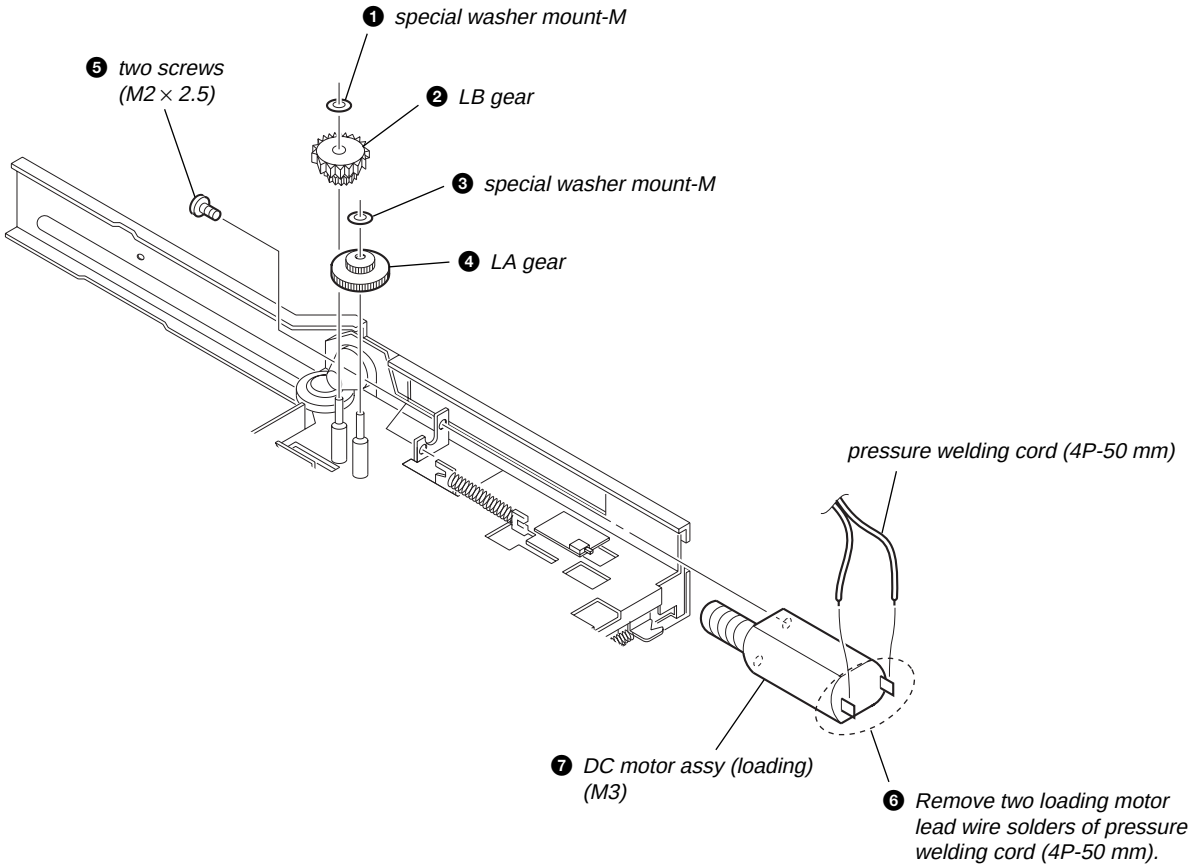
3-8. DC MOTOR ASSY (ELEVATOR) (M1)



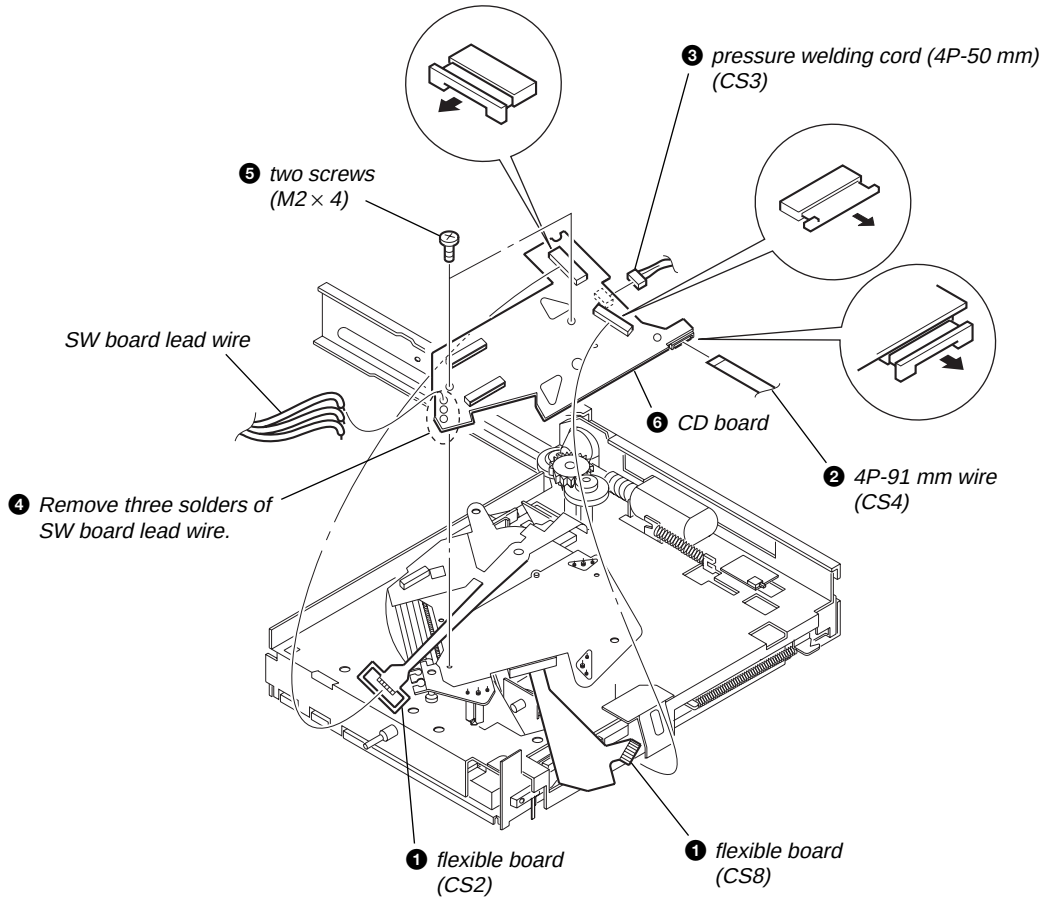
3-9. MECHANISM PANEL ASSY, ELEVATOR SECTION



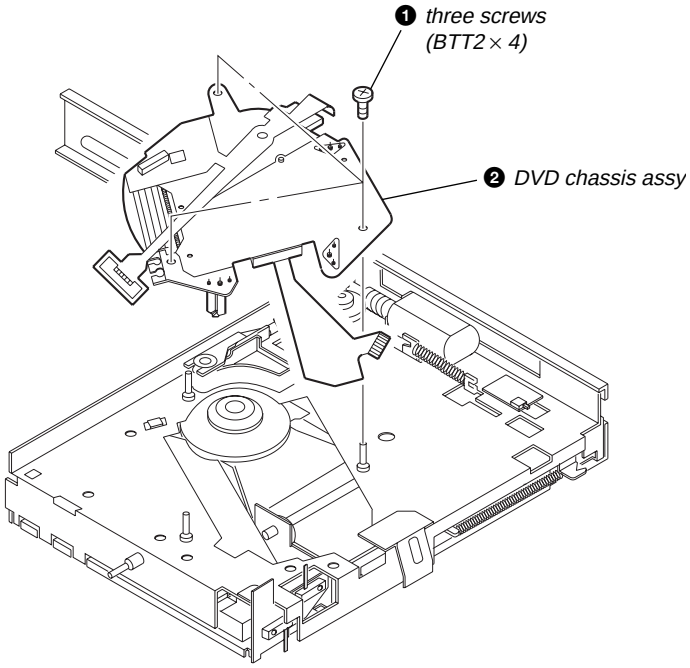
3-10. DC MOTOR ASSY (LOADING) (M3)



3-11. CD BOARD



3-12. DVD CHASSIS ASSY

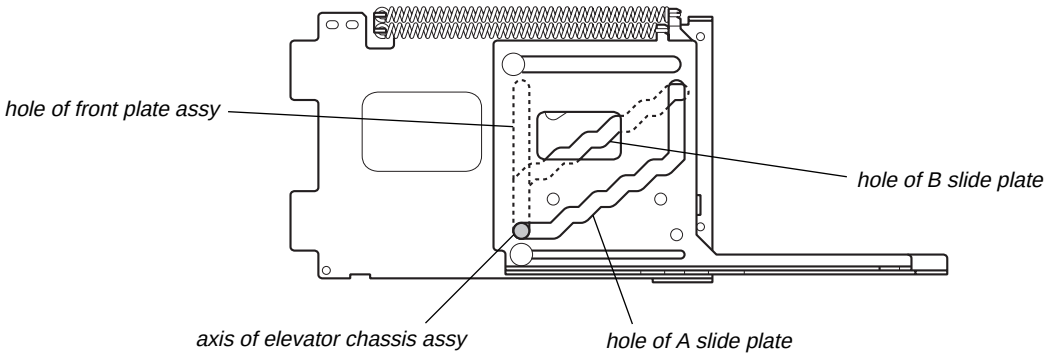


SECTION 4
ASSEMBLY

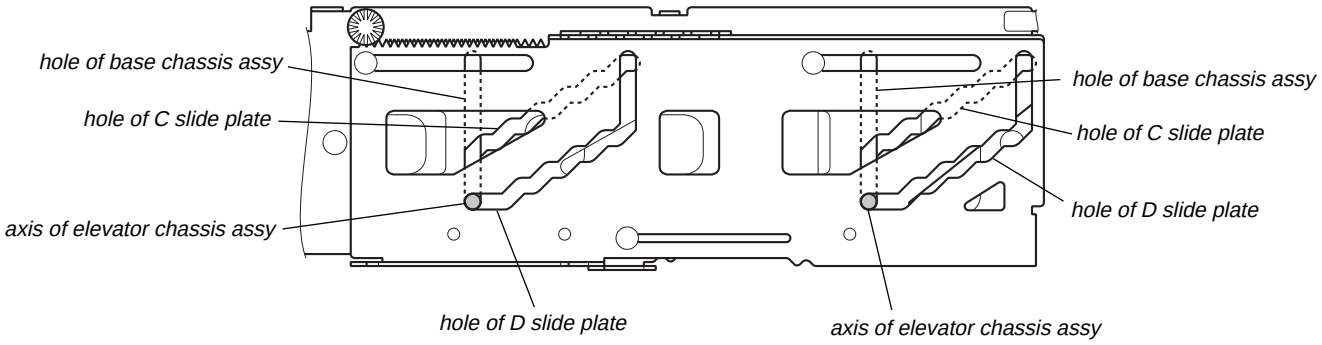
4-1. ADJUSTING PHASE OF A SLIDE PLATE, B SLIDE PLATE, C SLIDE PLATE AND D SLIDE PLATE.

- When installing the elevator section, slide A slide plate and B slide plate, C slide plate and D slide plate respectively, install the axis of the elevator chassis assy as shown in the figure.

• Align holes of A slide plate and B slide plate with the hole of the front plate assy as shown in the figure.



• Align holes of C slide plate and D slide plate with the hole of the base chassis assy as shown in the figure.



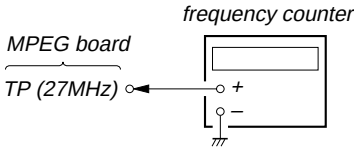
SECTION 5
ELECTRICAL ADJUSTMENTS

Preparation

- Use DVD-ROM disc for test as follows.
  NTSC:
  HLX-504 (J-6090-088-A) (single layer)
  HLX-505 (J-6090-089-A) (dual layer)
  PAL:
  HLX-506 (J-6090-077-A) (single layer)
  HLX-507 (J-6090-078-A) (dual layer)
- Before perform the adjustments, connect the FM modulator.

Video Frequency Adjustment

Connection:

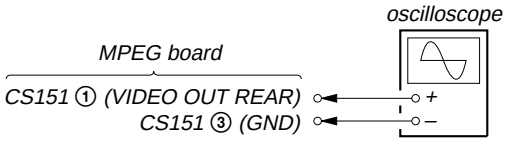


Procedure:

1. Connect a frequency counter to TP (27MHz) and GND on the MPEG board.
2. Adjust CT501 on the MPEG board so that the frequency counter reads 27 MHz ± 0.1 kHz.

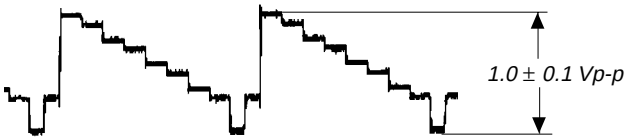
Video Output Level Adjustment

Connection:



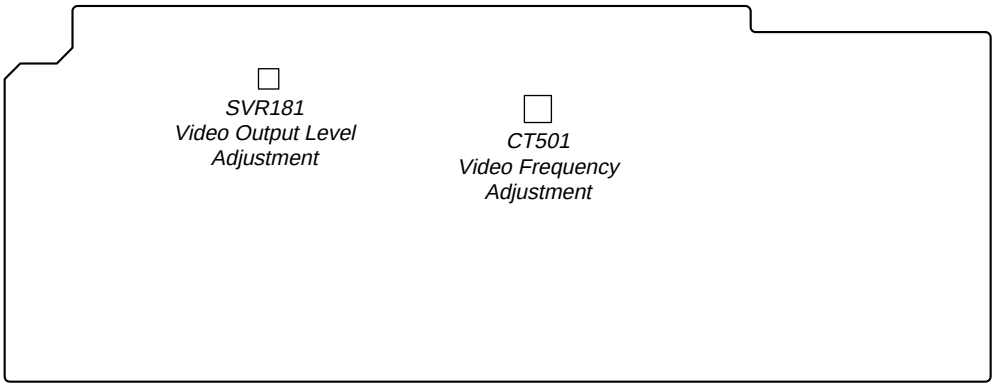
Procedure:

1. Connect an oscilloscope to CS151 pin ① (VIDEO OUTPUT REAR) and pin ③ (GND) on the MPEG board.
2. Playback the color bars (100%) of the test disc.
3. Adjust SVR181 on the MPEG board so that the waveform level of the oscilloscope is 1.0 ± 0.1 Vp-p.



Adjustment Location:

– MPEG BOARD (Component Side) –



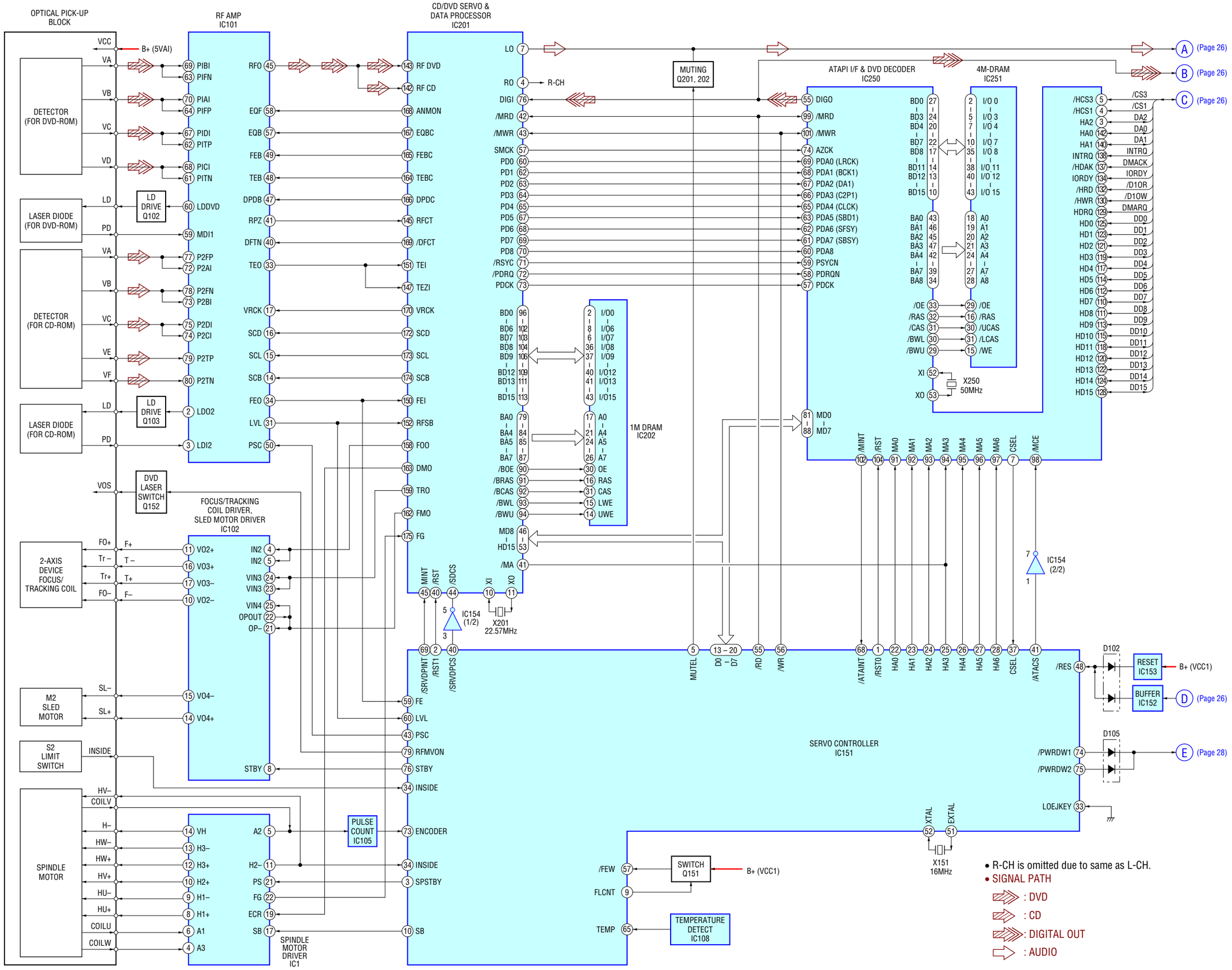
– MPEG BOARD (Conductor Side) –



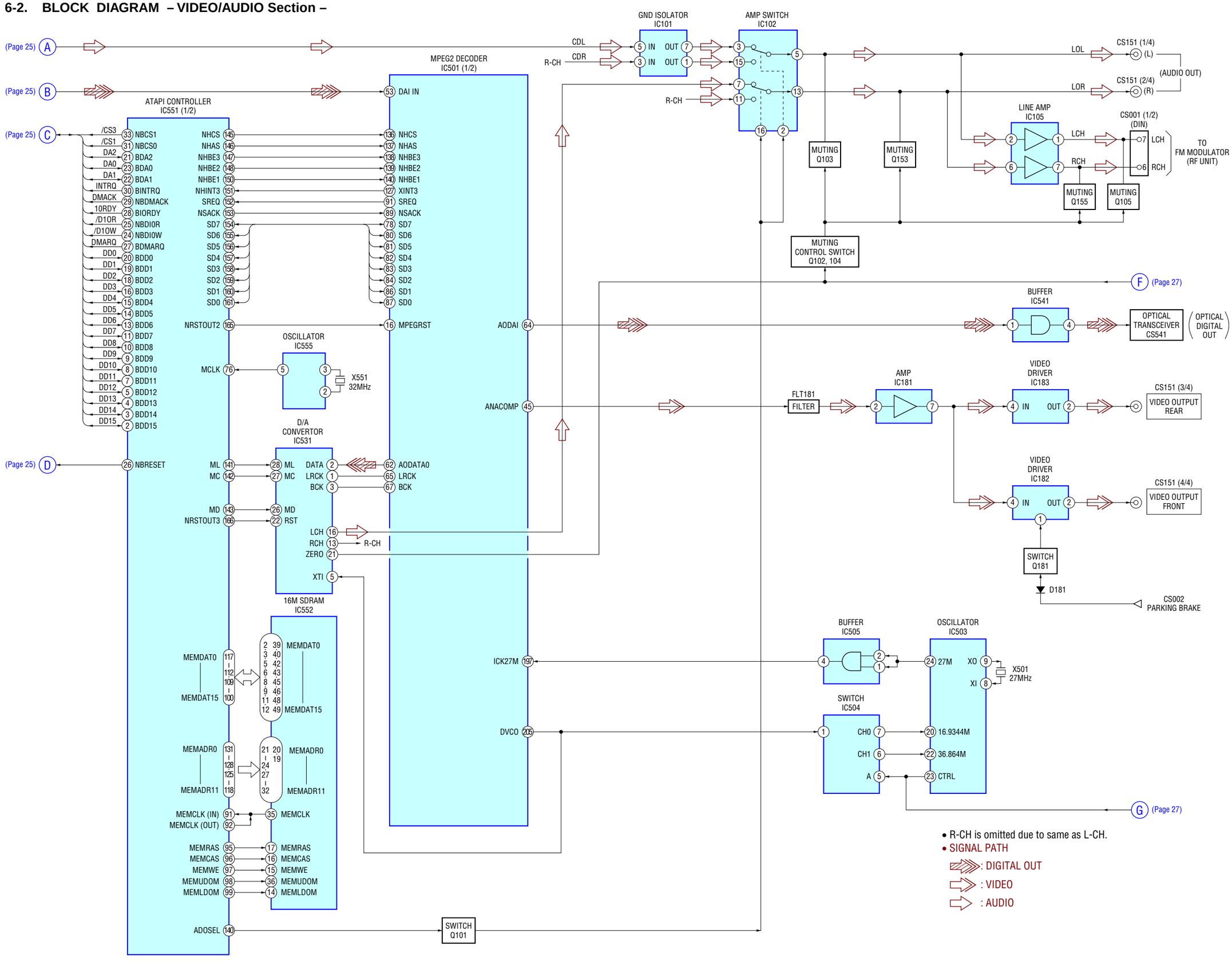
MEMO

SECTION 6
DIAGRAMS

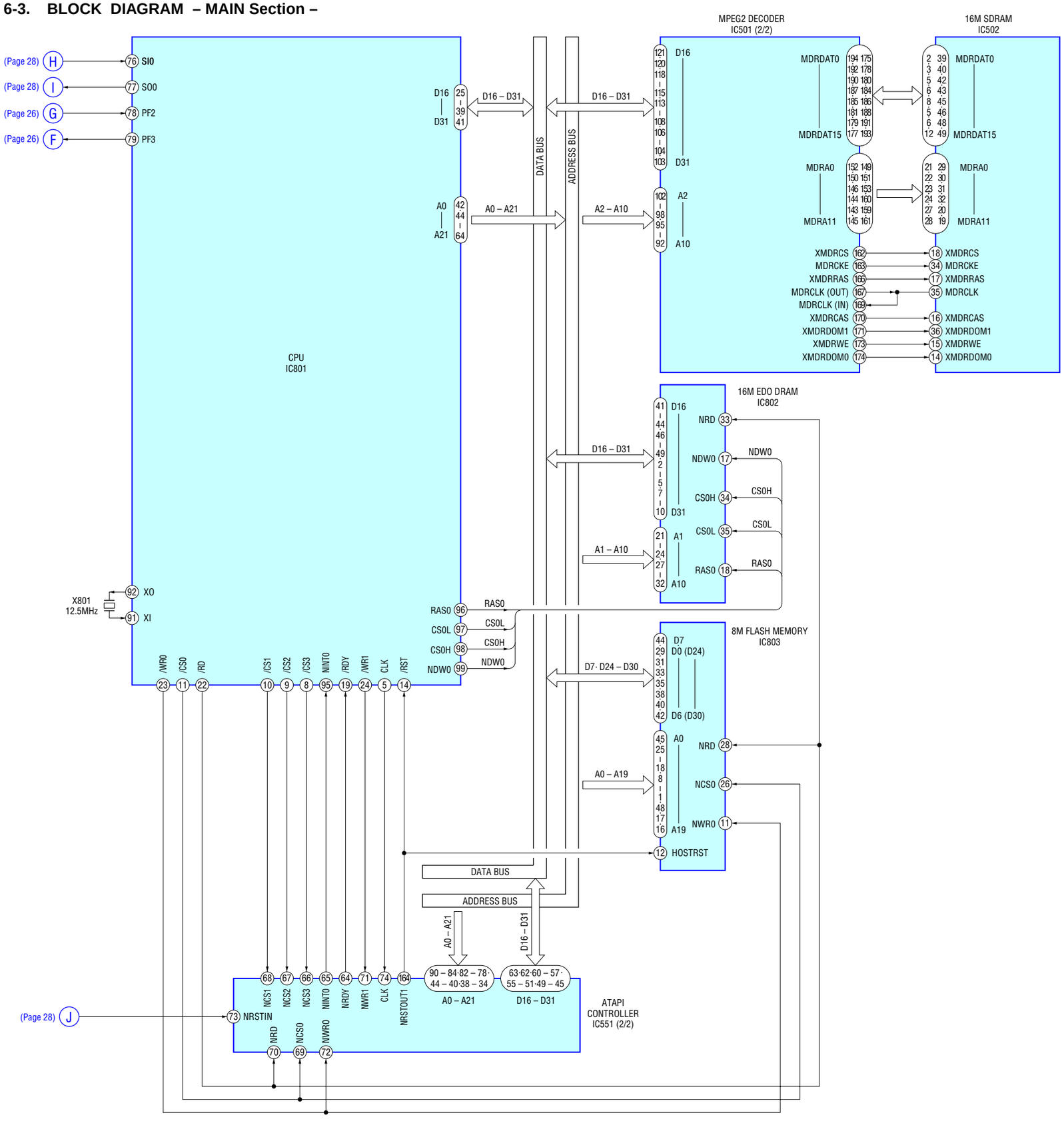
6-1. BLOCK DIAGRAM – SERVO Section –



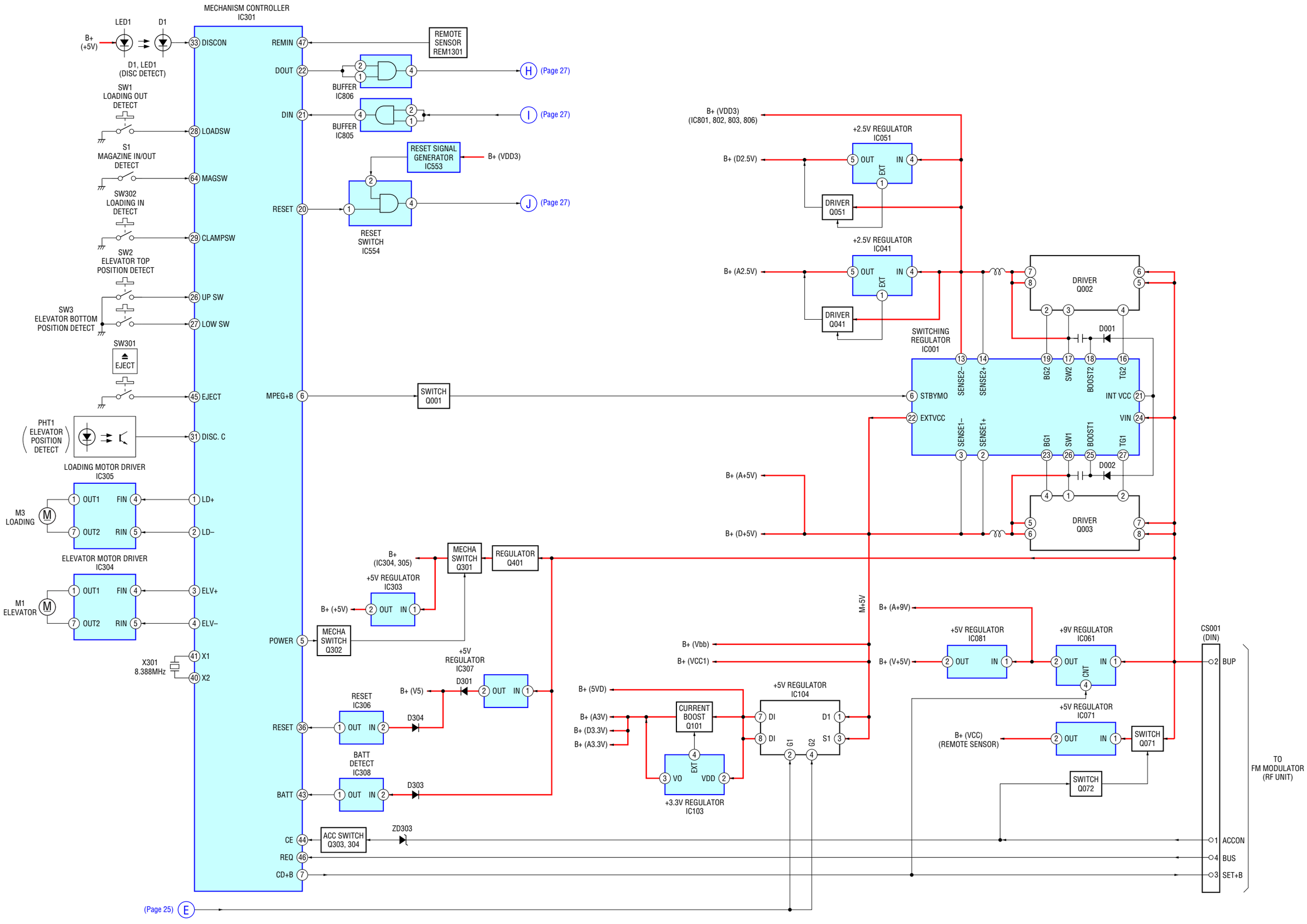
6-2. BLOCK DIAGRAM – VIDEO/AUDIO Section –



6-3. BLOCK DIAGRAM – MAIN Section –



6-4. BLOCK DIAGRAM – CONTROL/POWER Section –



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

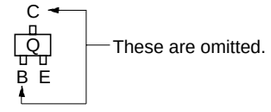
Note on Printed Wiring Boards:
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- MAIN board and MPEG board are multi-layer printed board. However, the patterns of intermediate-layer have not been included in the diagram.
- Indication of transistor

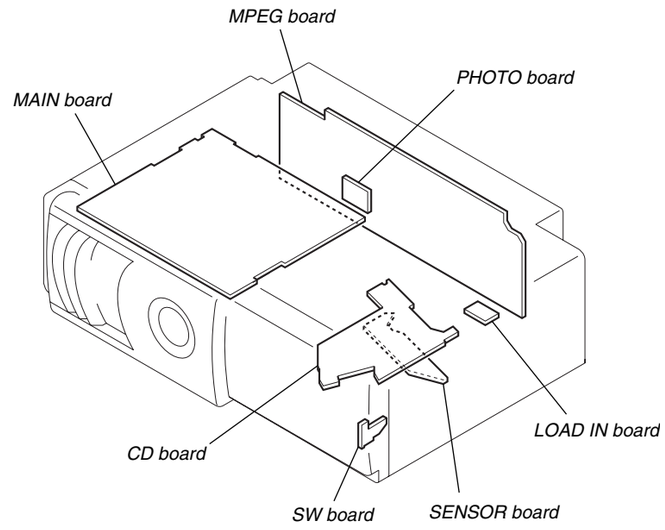


Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  ( ) : DVD PLAY
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇛ : DVD
  ⇒ : CD
  ⇛ : DIGITAL OUT
  ⇨ : VIDEO
  ⇨ : AUDIO (CD/DVD)

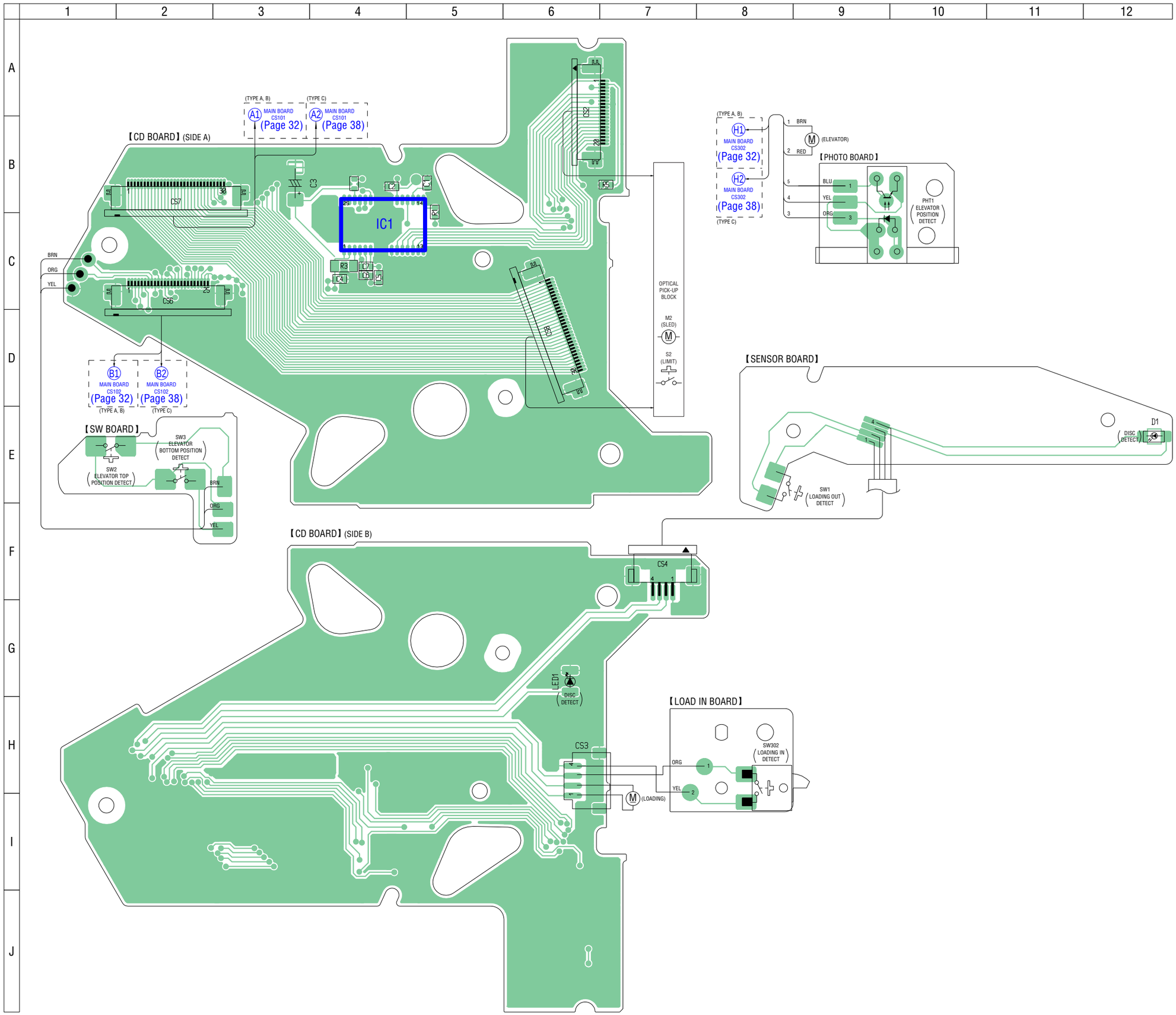
- **Circuit Boards Location**



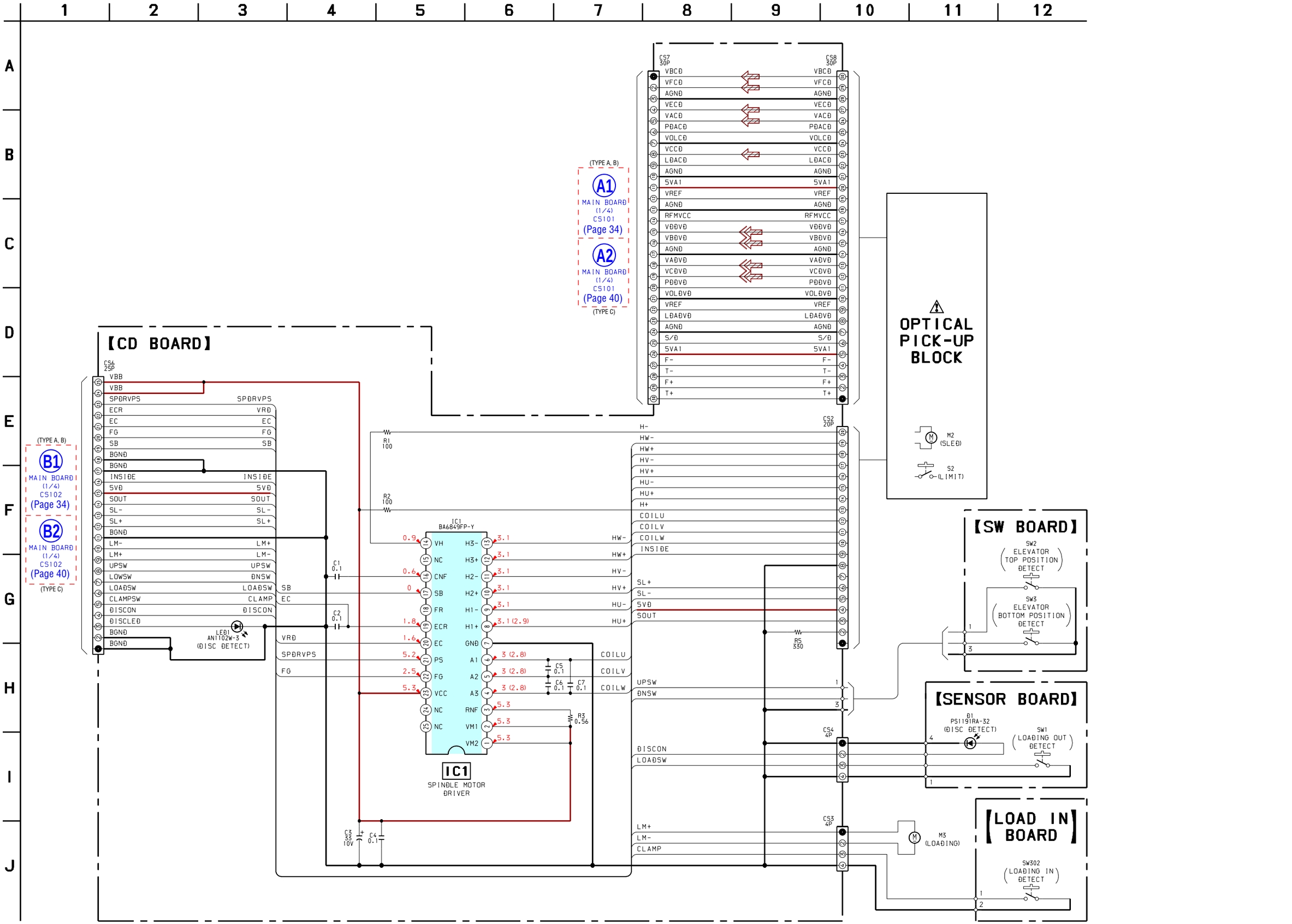
6-6. PRINTED WIRING BOARDS – SERVO Section – • See page 29 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D1	E-12
IC1	C-4
LED1	G-6
PHT1	B-9



6-7. SCHEMATIC DIAGRAMS – SERVO Section –



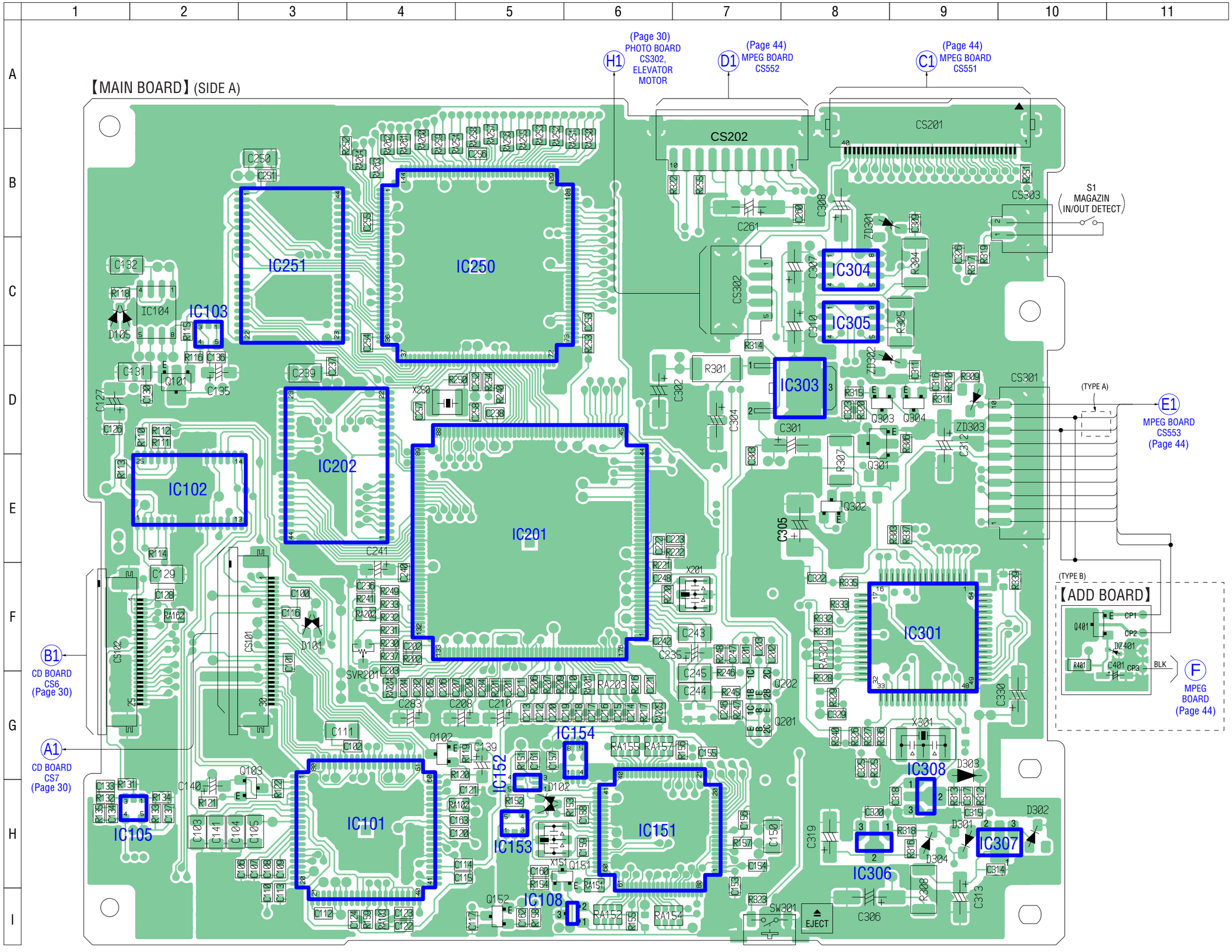
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-8. PRINTED WIRING BOARDS – MAIN (Side A)/ADD Boards (TYPE A, B) –

• See page 29 for Circuit Boards Location.

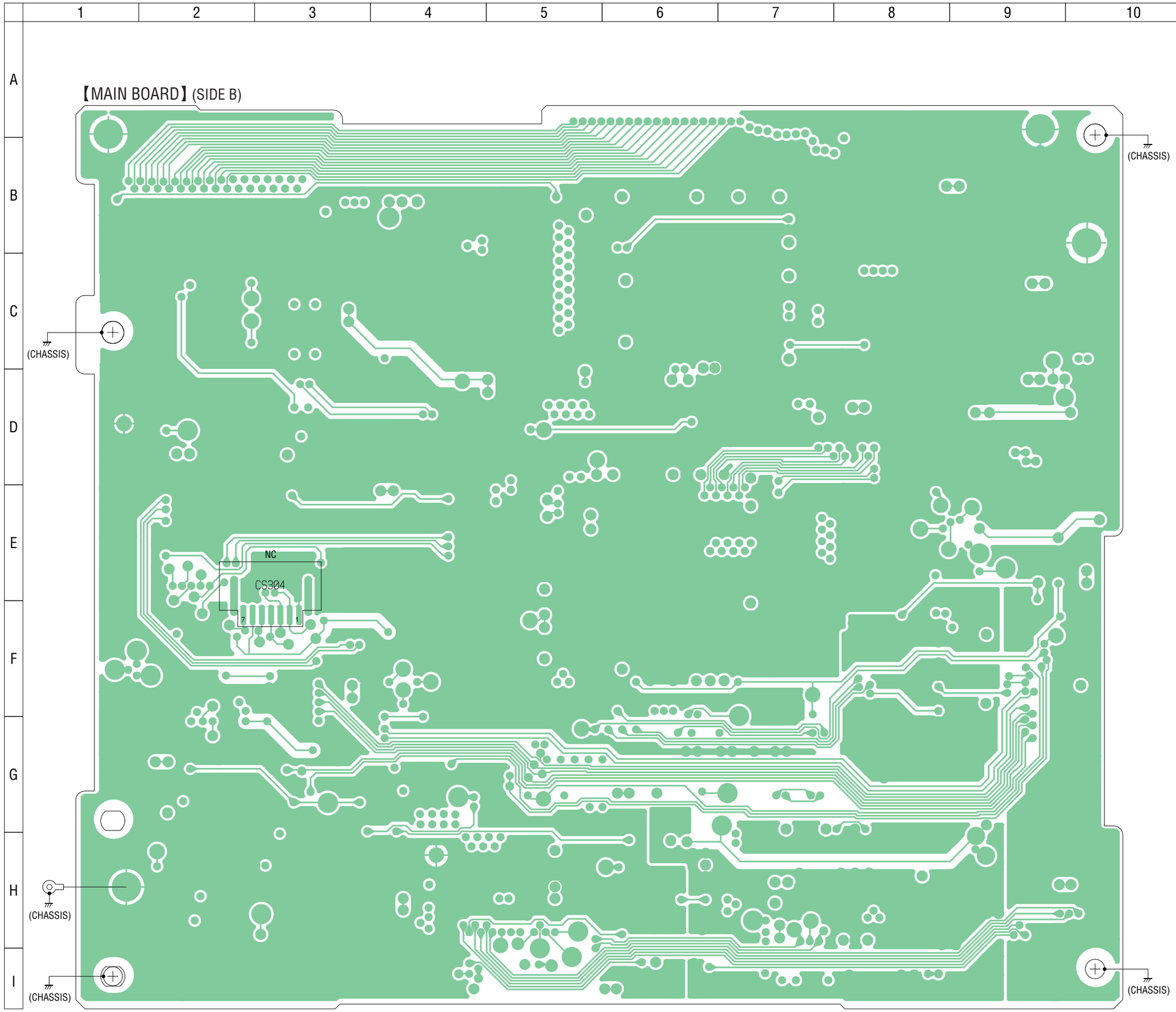
• **Semiconductor Location**

Ref. No.	Location
D101	F-3
D102	H-5
D105	C-1
D301	H-9
D302	H-10
D303	G-9
D304	H-9
DZ401	F-11
IC101	H-4
IC102	E-2
IC103	C-2
IC104	C-2
IC105	H-2
IC108	I-6
IC151	H-6
IC152	H-5
IC153	H-5
IC154	G-6
IC201	E-5
IC202	E-3
IC250	C-5
IC251	C-3
IC301	F-9
IC303	D-8
IC304	C-8
IC305	C-8
IC306	H-8
IC307	H-10
IC308	H-9
Q101	D-2
Q102	G-4
Q103	H-3
Q151	H-5
Q152	I-5
Q201	G-7
Q202	G-7
Q301	D-8
Q302	E-8
Q303	D-8
Q304	D-9
Q401	F-10
ZD301	B-8
ZD302	D-8
ZD303	D-9



6-9. PRINTED WIRING BOARD – MAIN Board (Side B) (TYPE A, B) –

• See page 29 for Circuit Boards Location.



6-10. SCHEMATIC DIAGRAM – MAIN Section (1/4) (TYPE A, B) – • See page 50 for Waveforms.

【MAIN BOARD】(1/4)

IC101 RF AMP IC101 TA1293F

IC108 TEMPERATURE DETECT IC108 LM50CIM3

IC151 SERVO CONTROLLER IC151 HD64F3039TEBL18/ 7331AE

IC152 BUFFER IC152 TC7ST08FU

IC153 RESET IC153 PST-597EN

IC154 INVERTER IC154(1/2) TC7WU04FU IC154(2/2) TC7WU04FU

IC105 PULSE COUNT IC105 TC75S51F

IC102 FOCUS/TRACKING COIL DRIVER, SLED MOTOR DRIVER IC102 BA5918F

IC103 +3.3V REGULATOR IC103 RN5RG33AA

IC104 REGULATOR MMDF2P01HD-R2

Q101 2SB1120 CURRENT BOOST

Q102 2SA1338-5 LD DRIVE (FOR DVD-ROM)

Q103 2SA1338-5 LD DRIVE (FOR CD-ROM)

Q151 DTA114YU SWITCH

Q152 2SA1338-5 DVD LASER SWITCH

D101 DAP202U

D102 DAP202U

D105 DAN202U

X151 16MHz

CS101 30P

CS102 25P

RA102 47kX2

RA103 10kX2

RA151 1kX2

RA152 47kX4

RA154 47kX4

RA155 47kX4

RA157 47kX4

RA162 1kX2

(A1) CD BOARD CS7 (Page 31)

(B1) CD BOARD CS6 (Page 31)

(1) MAIN BOARD (4/4) (Page 37)

(2) MAIN BOARD (2/4) (Page 35)

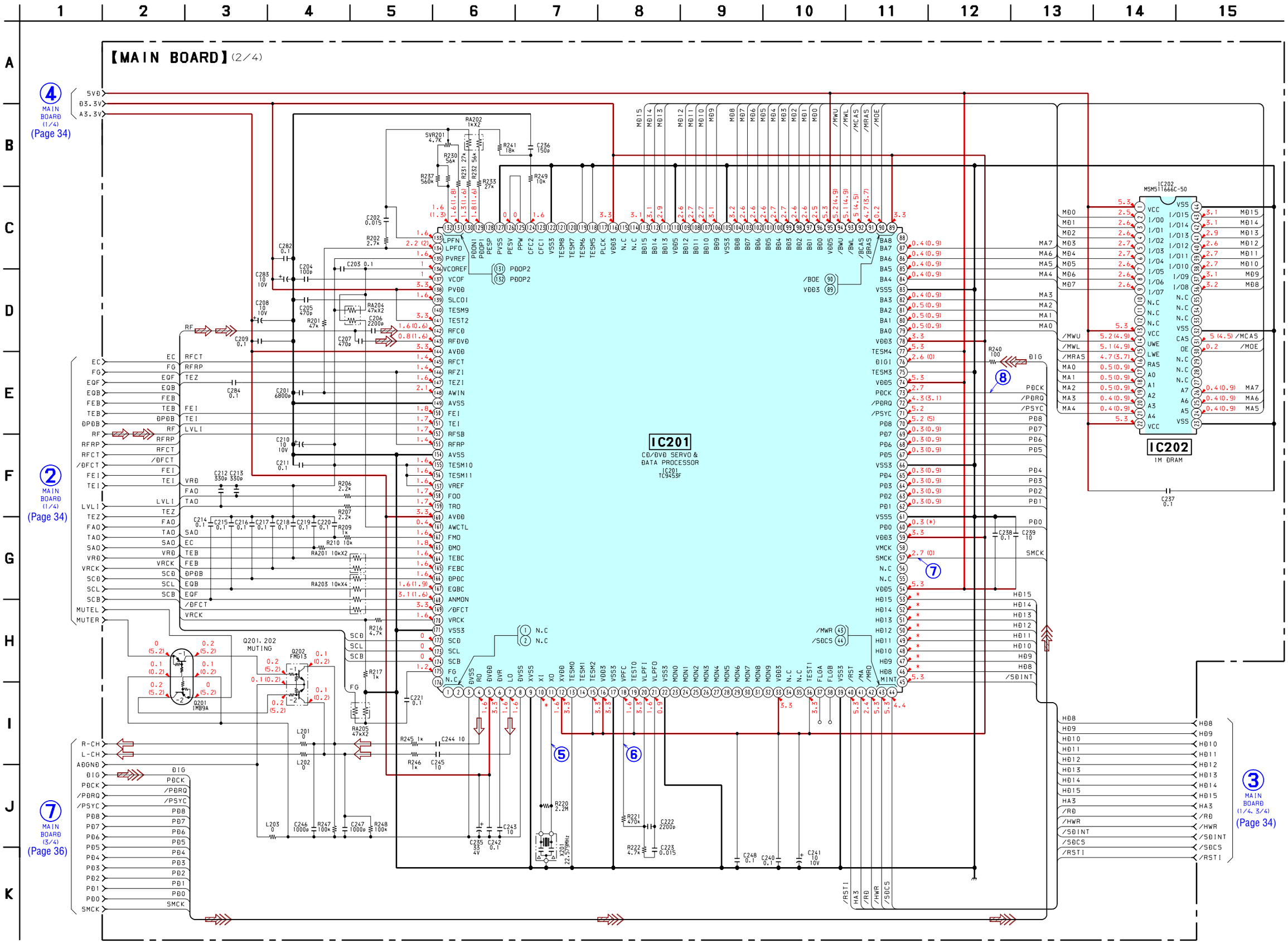
(3) MAIN BOARD (2/4) (Page 35)

(4) MAIN BOARD (2/4) (Page 35)

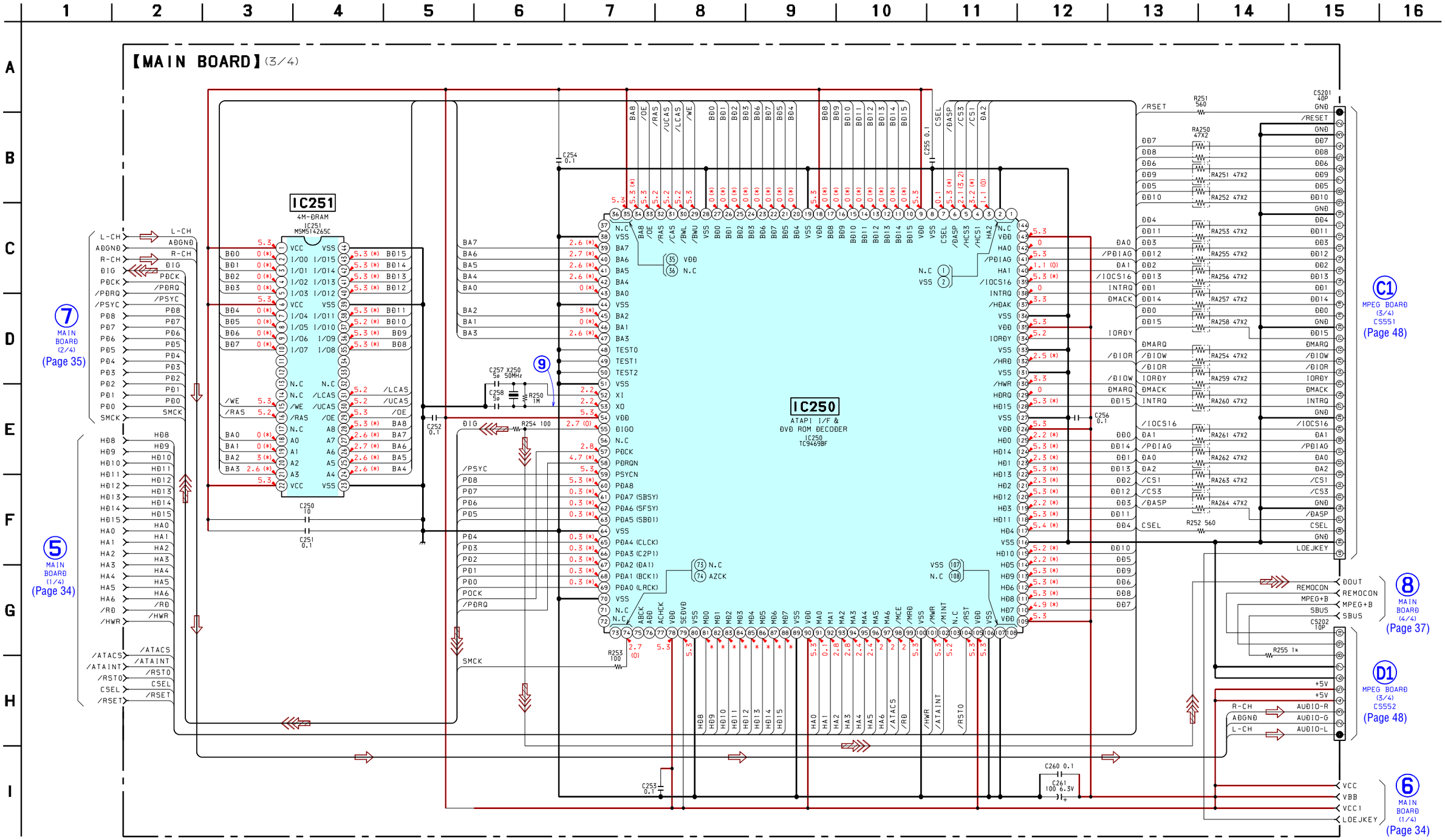
(5) MAIN BOARD (3/4) (Page 36)

(6) MAIN BOARD (3/4) (Page 36)

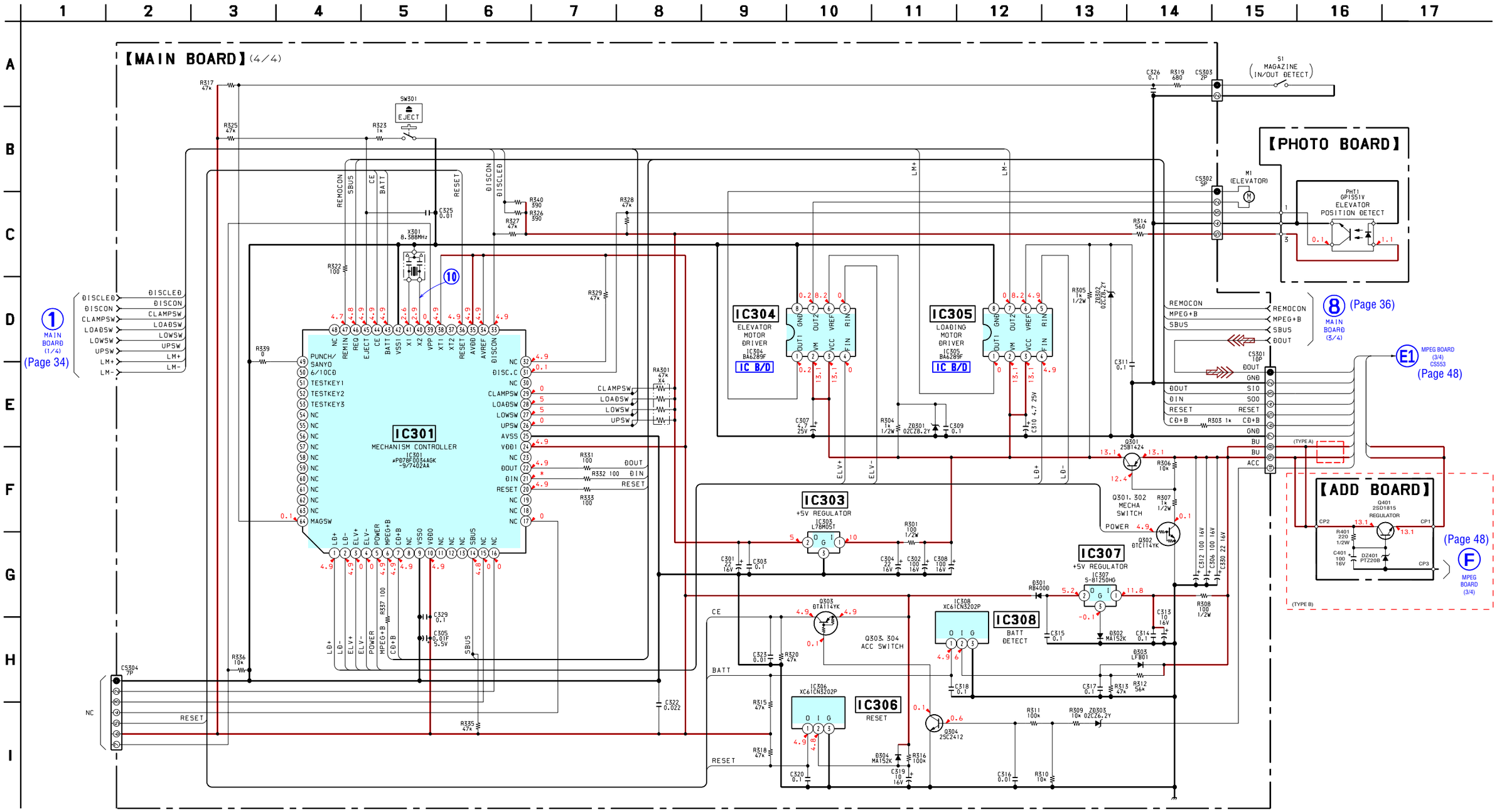
6-11. SCHEMATIC DIAGRAM – MAIN Section (2/4) (TYPE A, B) – • See page 50 for Waveforms.



6-12. SCHEMATIC DIAGRAM – MAIN Section (3/4) (TYPE A, B) – • See page 50 for Waveform.



6-13. SCHEMATIC DIAGRAM – MAIN Section (4/4) (TYPE A, B) – • See page 50 for Waveform. • See page 51 for IC Block Diagrams.

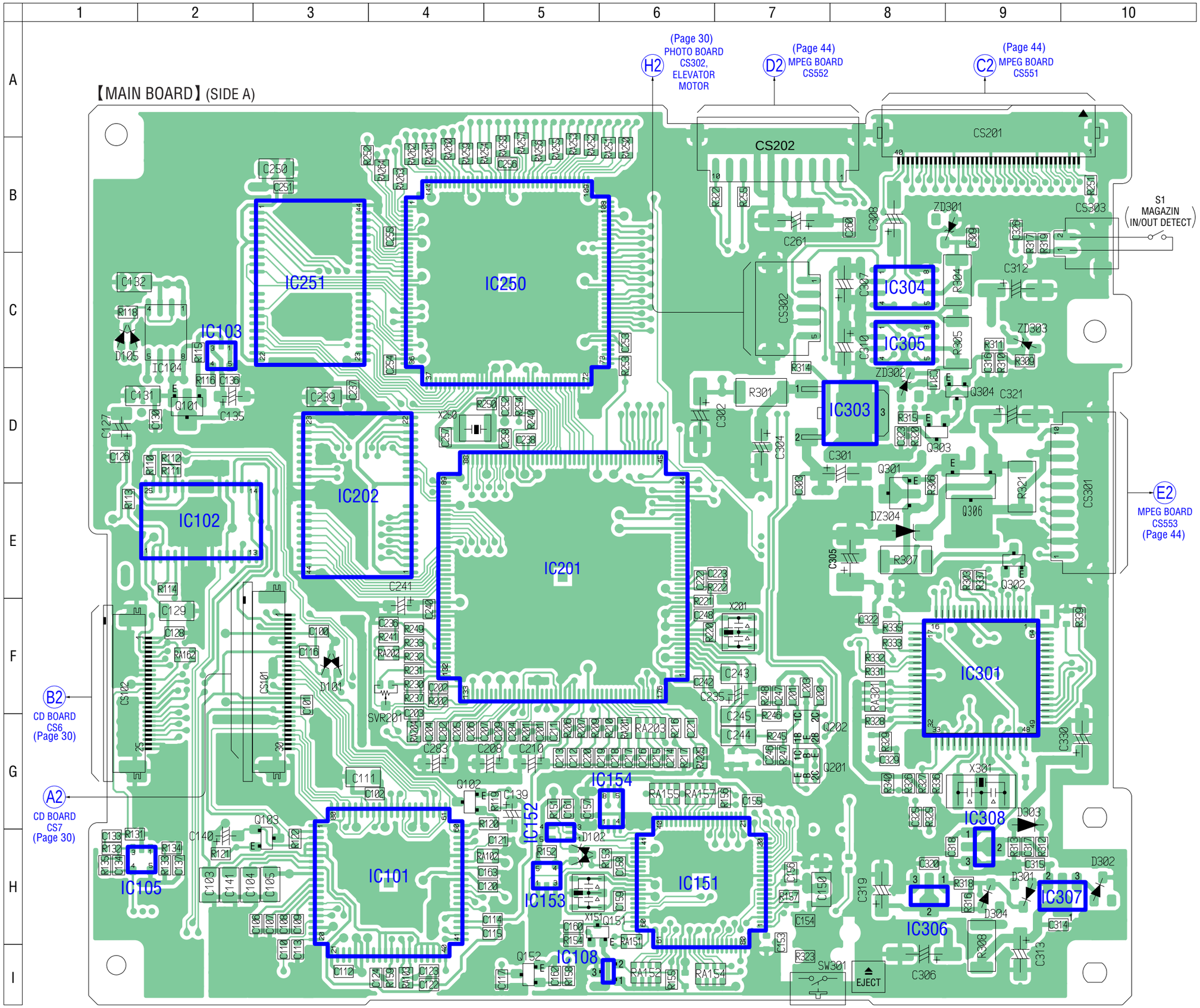


6-14. PRINTED WIRING BOARD – MAIN Board (Side A) (TYPE C) –

• See page 29 for Circuit Boards Location.

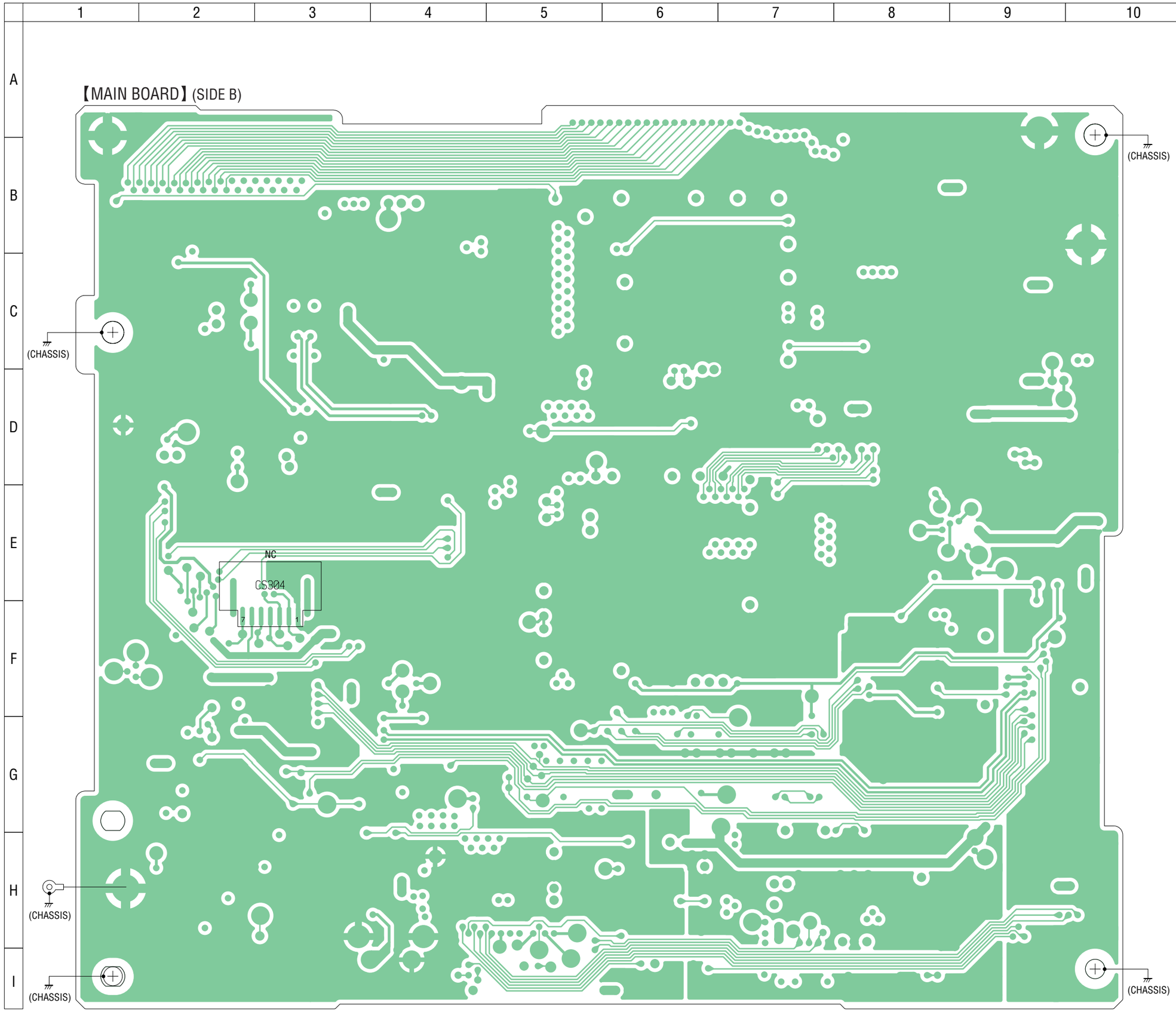
- **Semiconductor Location**

Ref. No.	Location
D101	F-3
D102	H-5
D105	C-1
D301	H-9
D302	H-10
D303	G-9
D304	H-9
DZ304	E-8
IC101	H-4
IC102	E-2
IC103	C-2
IC104	C-2
IC105	H-2
IC108	I-6
IC151	H-6
IC152	H-5
IC153	H-5
IC154	G-6
IC201	E-5
IC202	E-3
IC250	C-5
IC251	C-3
IC301	F-9
IC303	D-8
IC304	C-8
IC305	C-8
IC306	H-8
IC307	H-10
IC308	H-9
Q101	D-2
Q102	G-4
Q103	H-3
Q151	H-5
Q152	I-5
Q201	G-7
Q202	G-7
Q301	E-8
Q302	E-9
Q303	D-8
Q304	D-9
Q306	E-9
ZD301	B-9
ZD302	D-8
ZD303	C-9

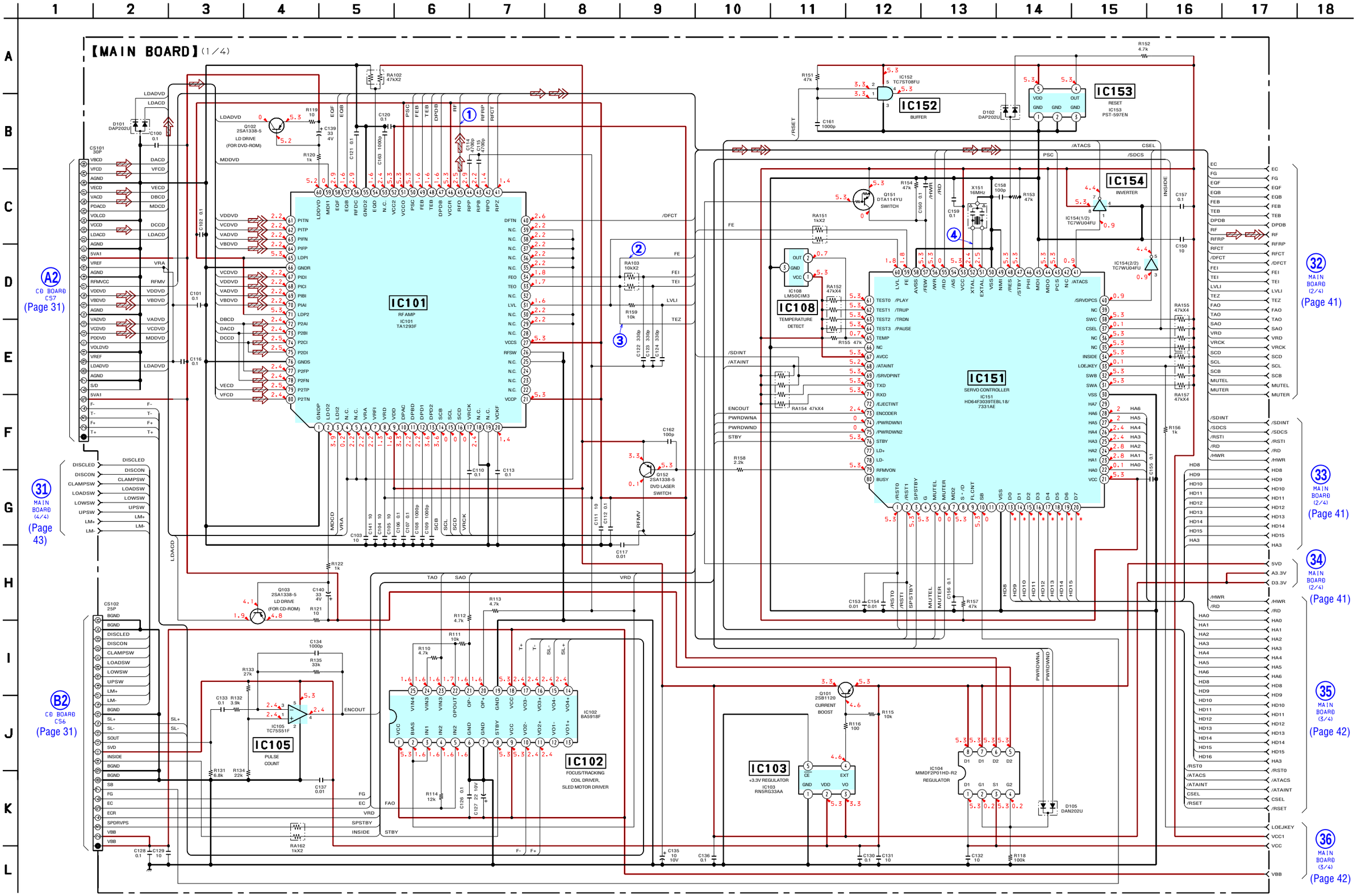


6-15. PRINTED WIRING BOARD – MAIN Board (Side B) (TYPE C) –

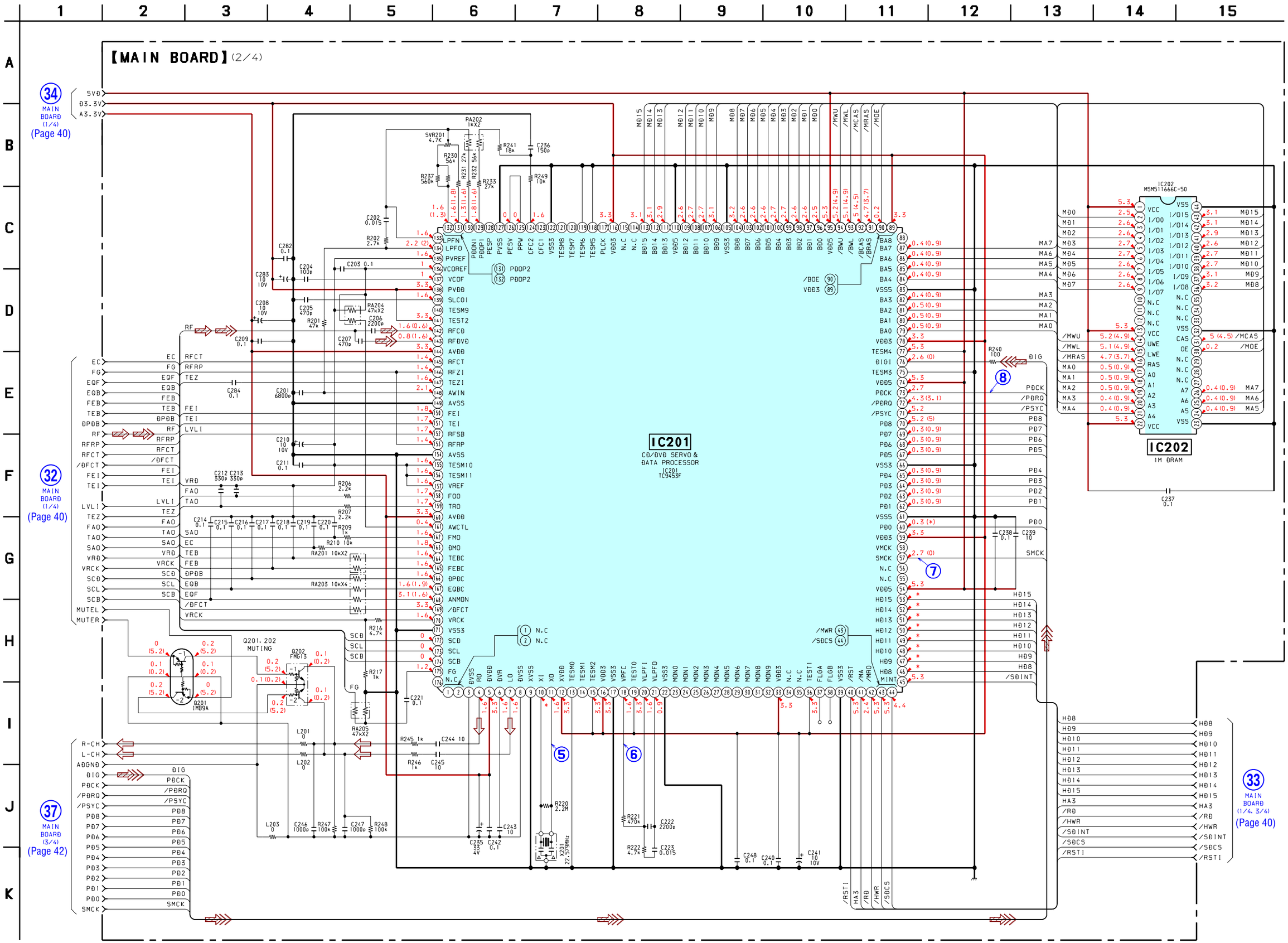
• See page 29 for Circuit Boards Location.



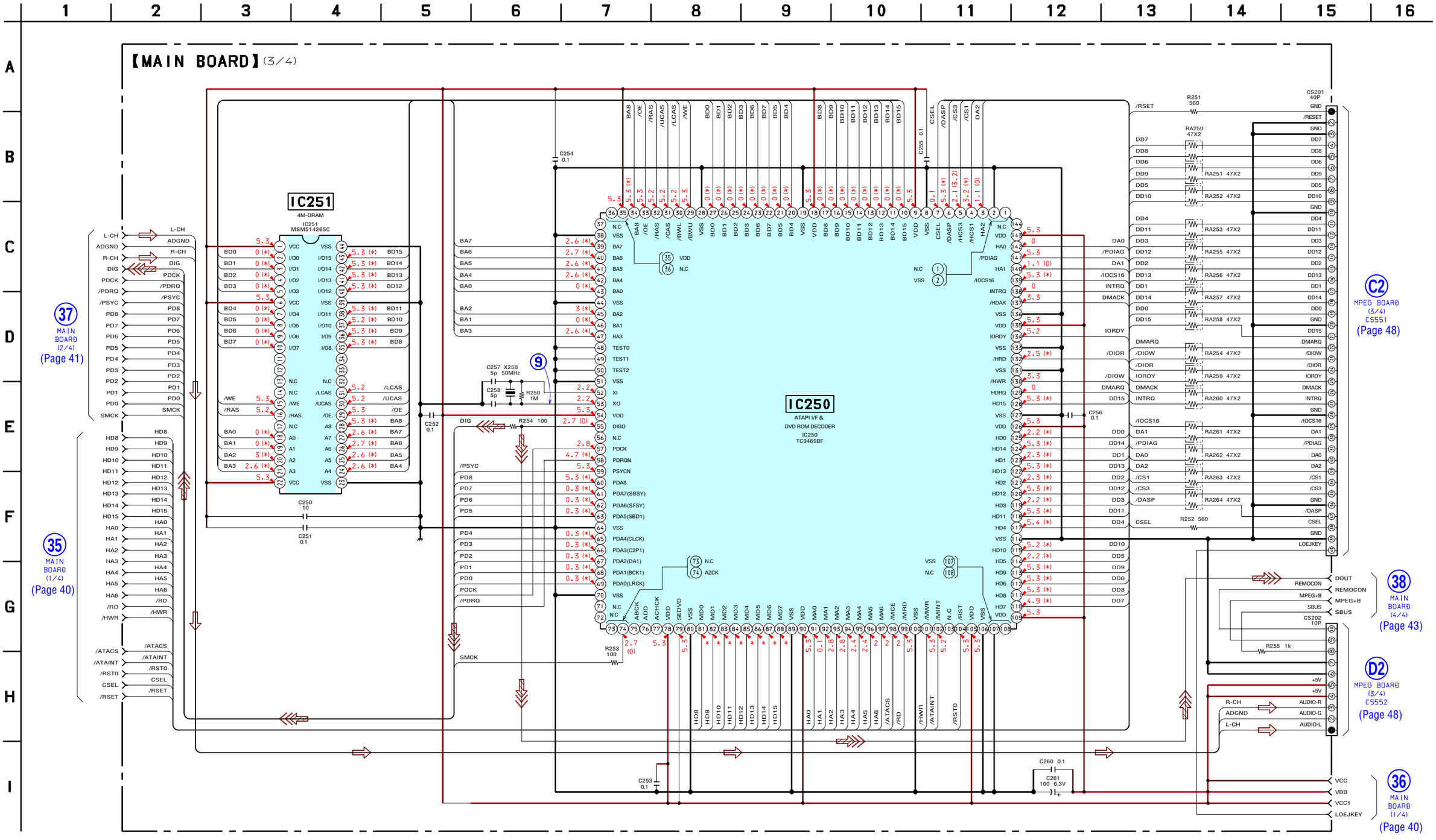
6-16. SCHEMATIC DIAGRAM – MAIN Section (1/4) (TYPE C) – • See page 50 for Waveforms.



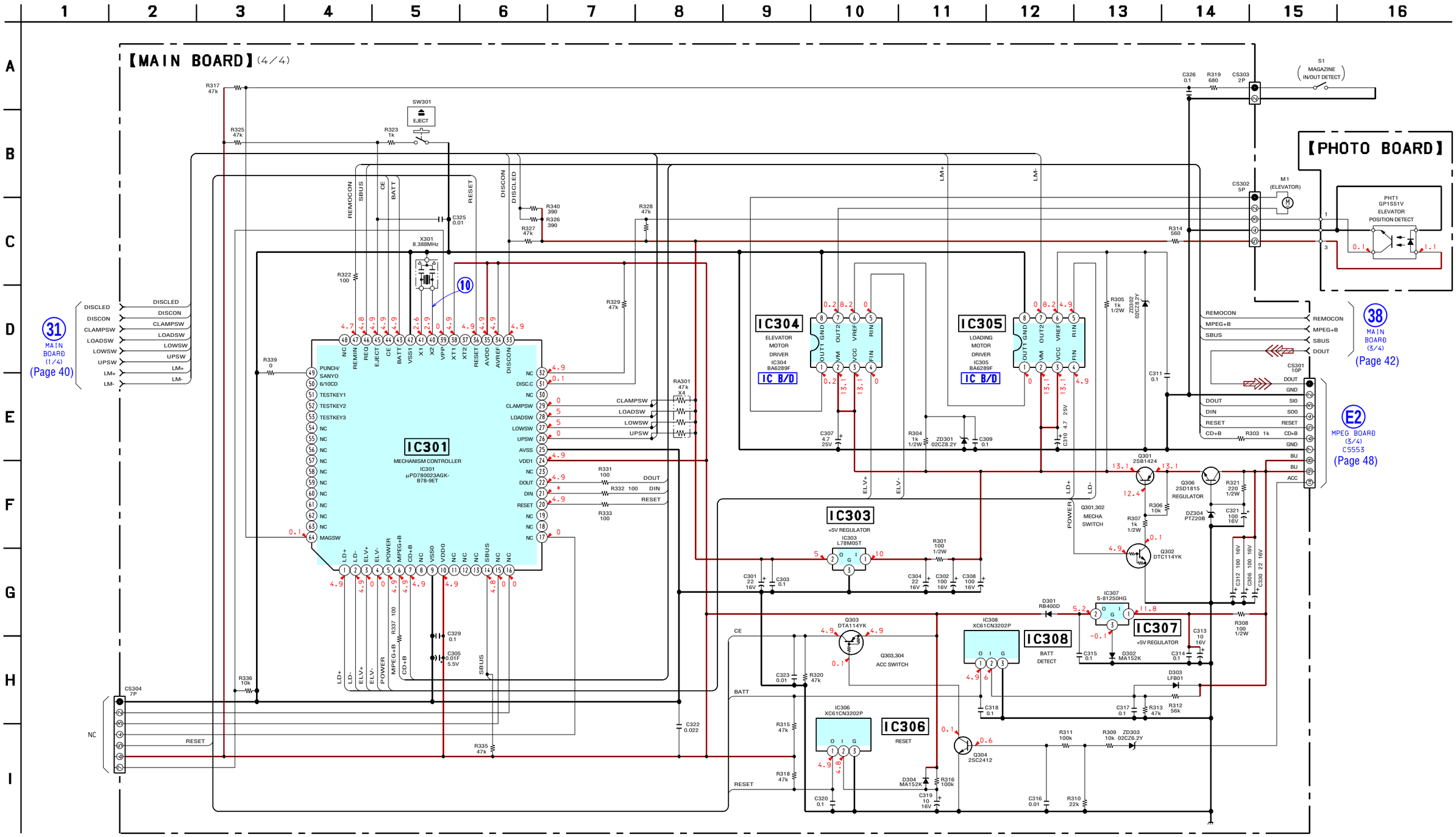
6-17. SCHEMATIC DIAGRAM – MAIN Section (2/4) (TYPE C) – • See page 50 for Waveforms.



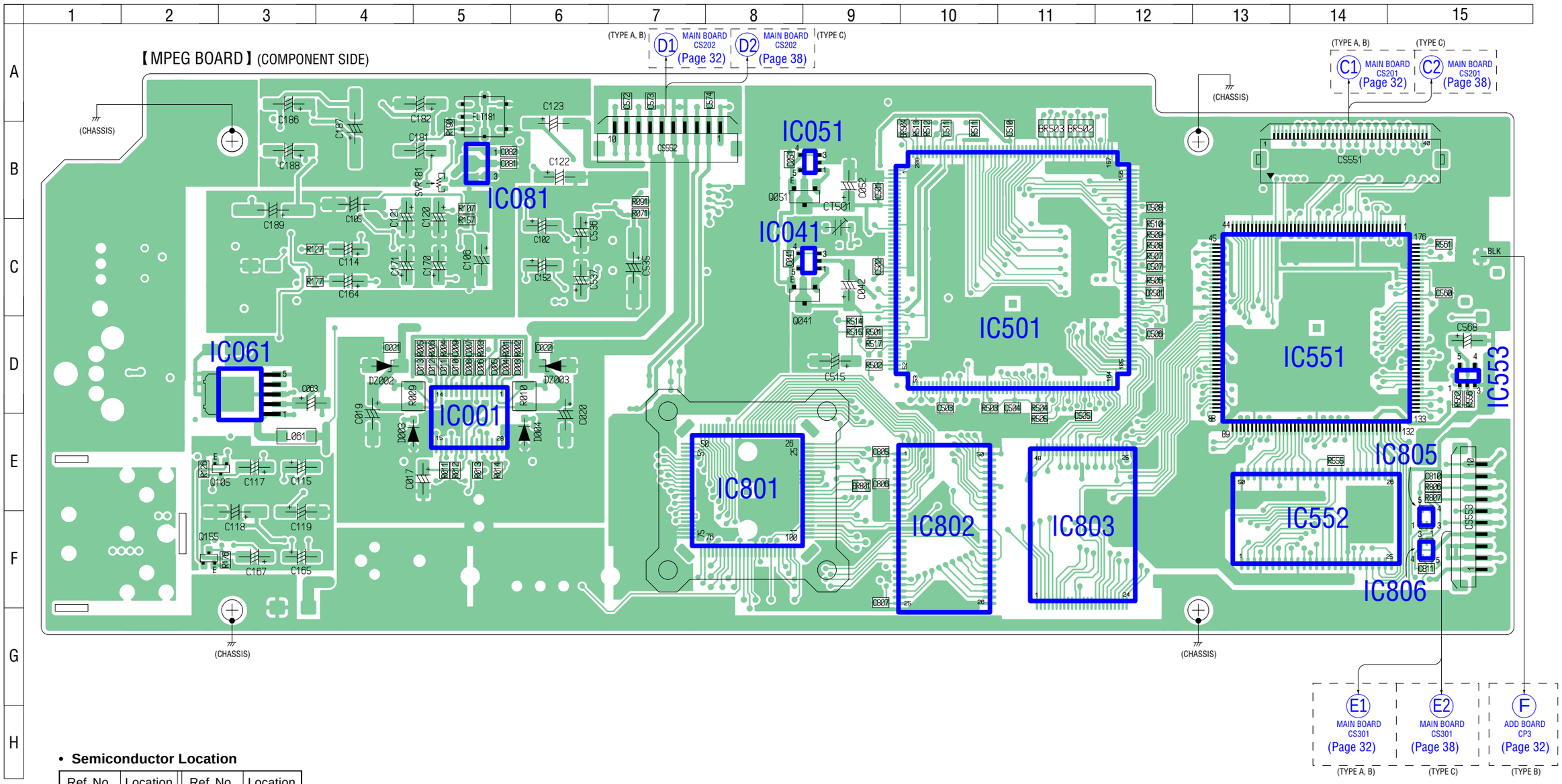
6-18. SCHEMATIC DIAGRAM – MAIN Section (3/4) (TYPE C) – • See page 50 for Waveform.



6-19. SCHEMATIC DIAGRAM – MAIN Section (4/4) (TYPE C) – • See page 50 for Waveform. • See page 51 for IC Block Diagrams.



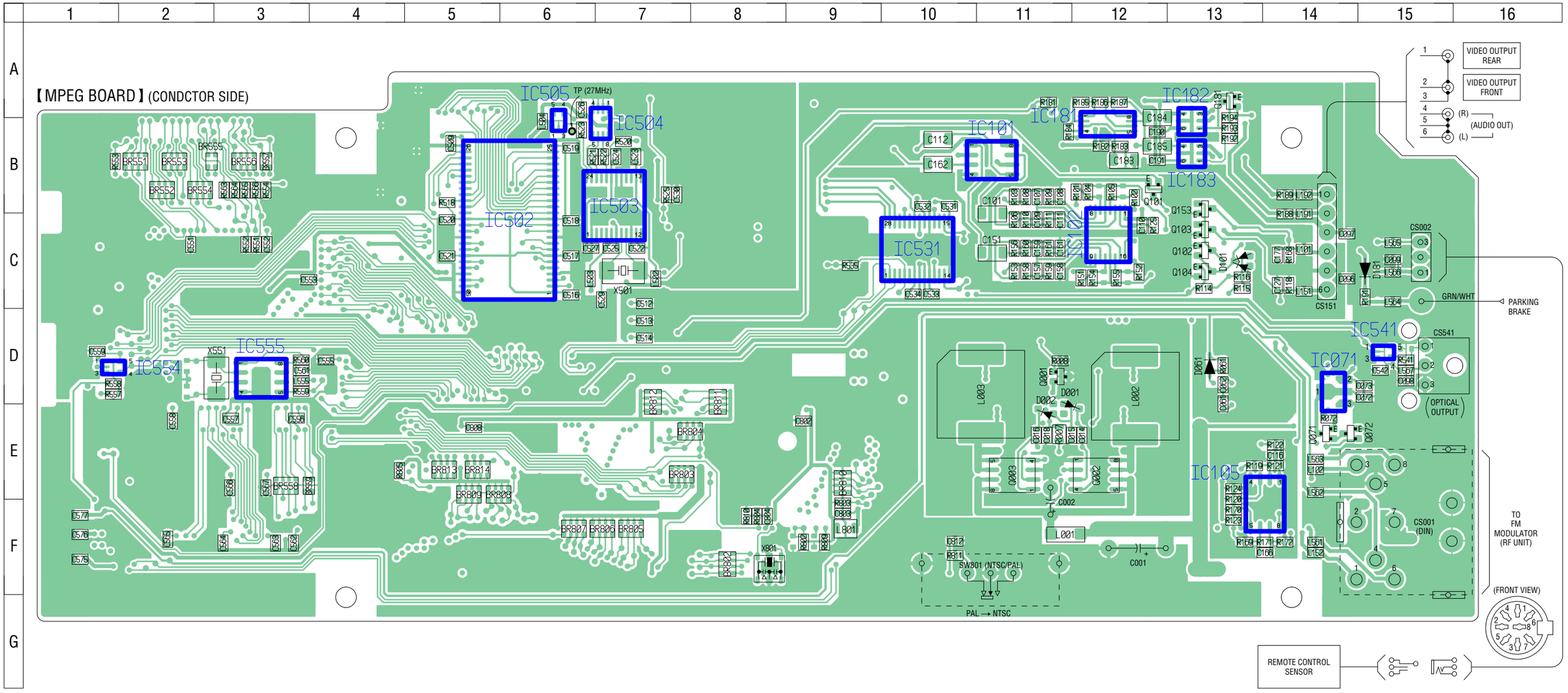
6-20. PRINTED WIRING BOARD – MPEG Board (Component Side) – • See page 29 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D003	E-4	IC552	F-14
D004	E-6	IC553	D-15
DZ002	D-4	IC801	E-8
DZ003	D-6	IC802	F-10
		IC803	F-11
IC001	E-5	IC805	F-15
IC041	C-9	IC806	F-15
IC051	B-9		
IC061	D-3	Q041	C-9
IC081	B-5	Q051	B-9
IC501	C-10	Q105	E-3
IC551	D-14	Q155	F-2

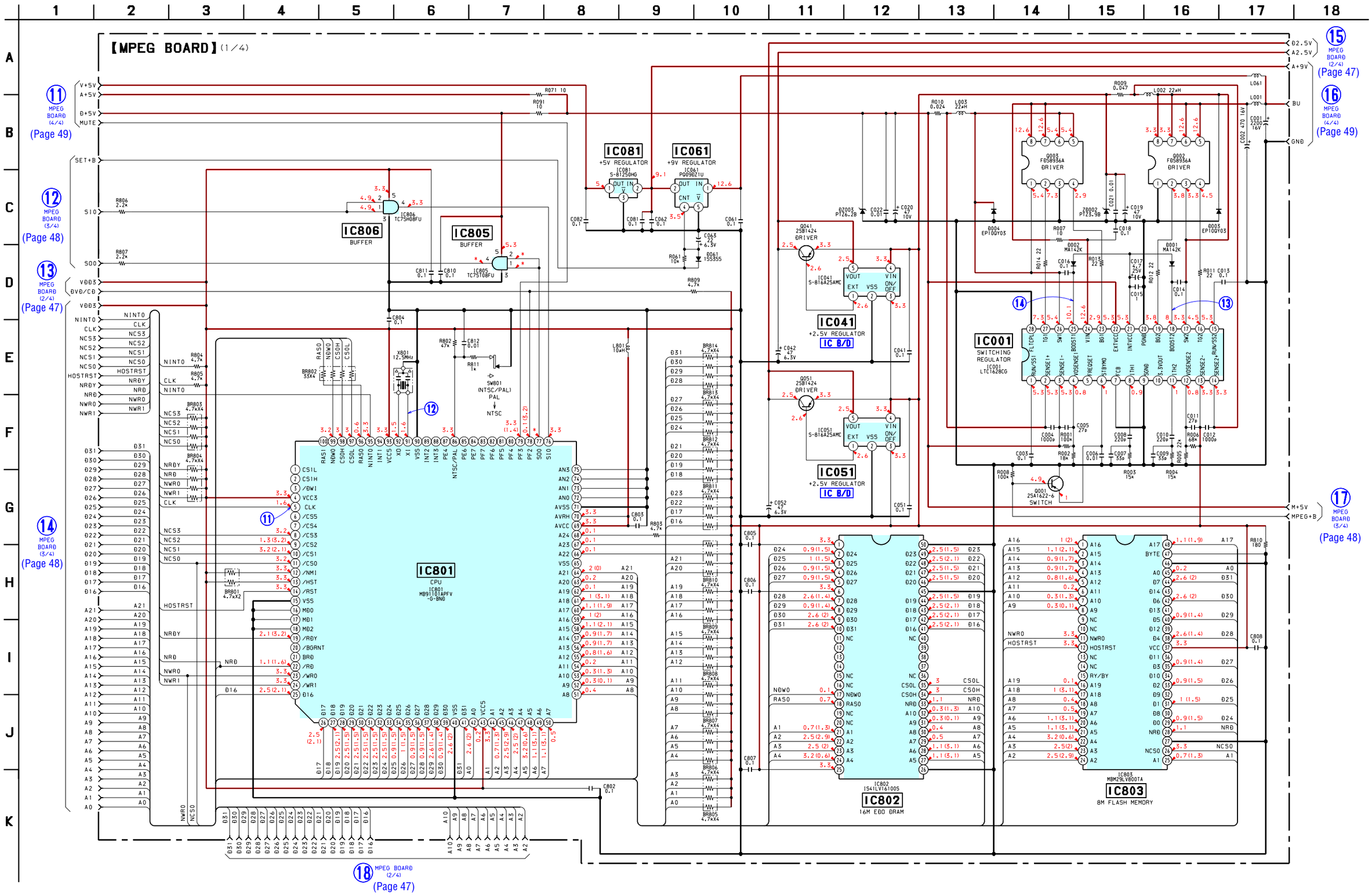
6-21. PRINTED WIRING BOARD – MPEG Board (Conductor Side) – **• See page 29 for Circuit Boards Location.**



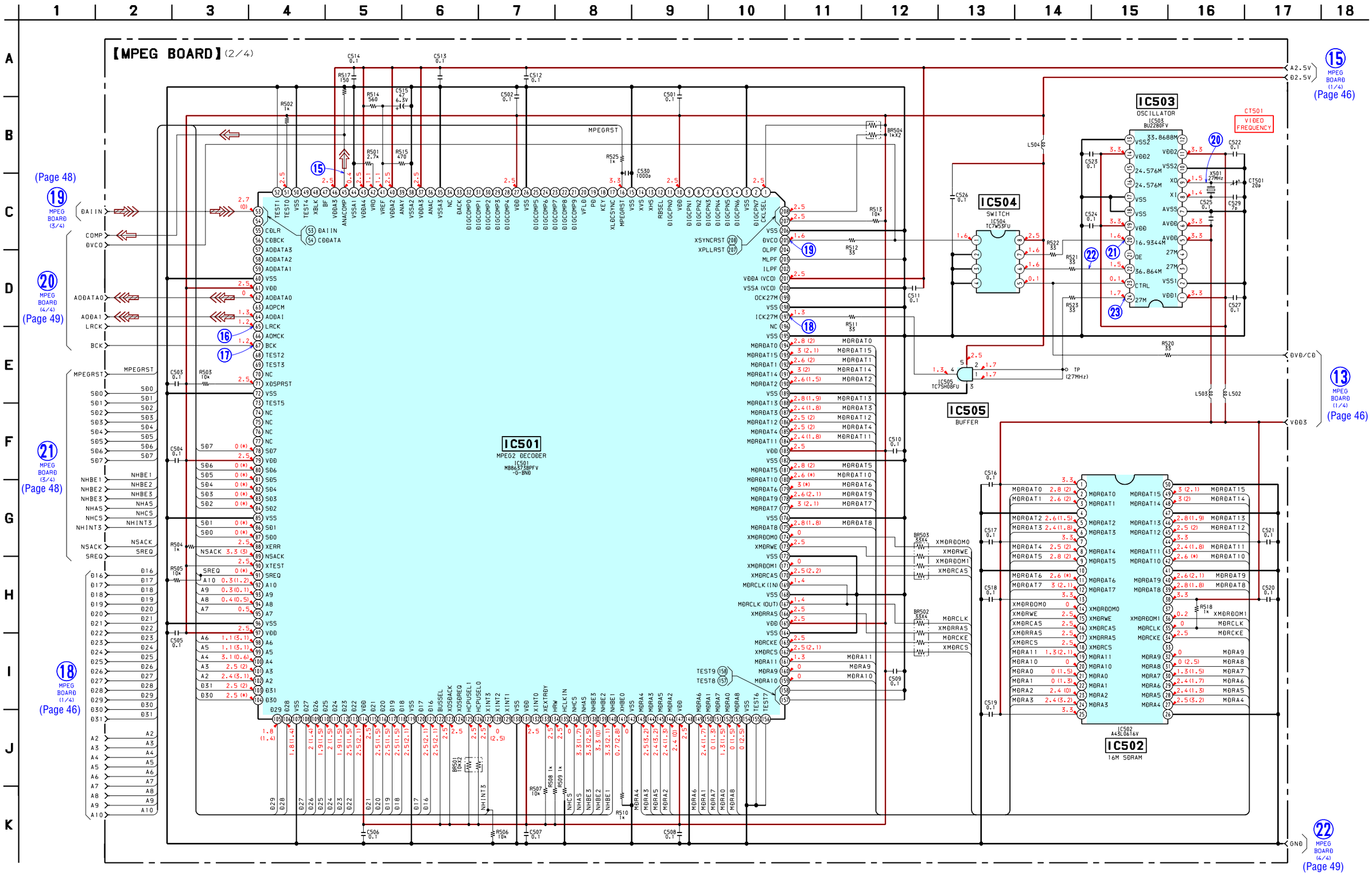
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D001	E-11	IC531	C-10
D002	E-11	IC541	D-15
D061	D-13	IC554	D-1
D101	C-13	IC555	D-3
D181	C-15		
		Q001	D-11
IC071	D-14	Q002	E-12
IC101	B-11	Q003	E-11
IC102	C-12	Q071	E-14
IC105	F-14	Q072	E-14
IC181	B-12	Q101	B-12
IC182	B-13	Q102	C-13
IC183	B-13	Q103	C-13
IC502	C-6	Q104	C-13
IC503	B-7	Q153	B-13
IC504	B-7	Q181	A-13
IC505	B-6		

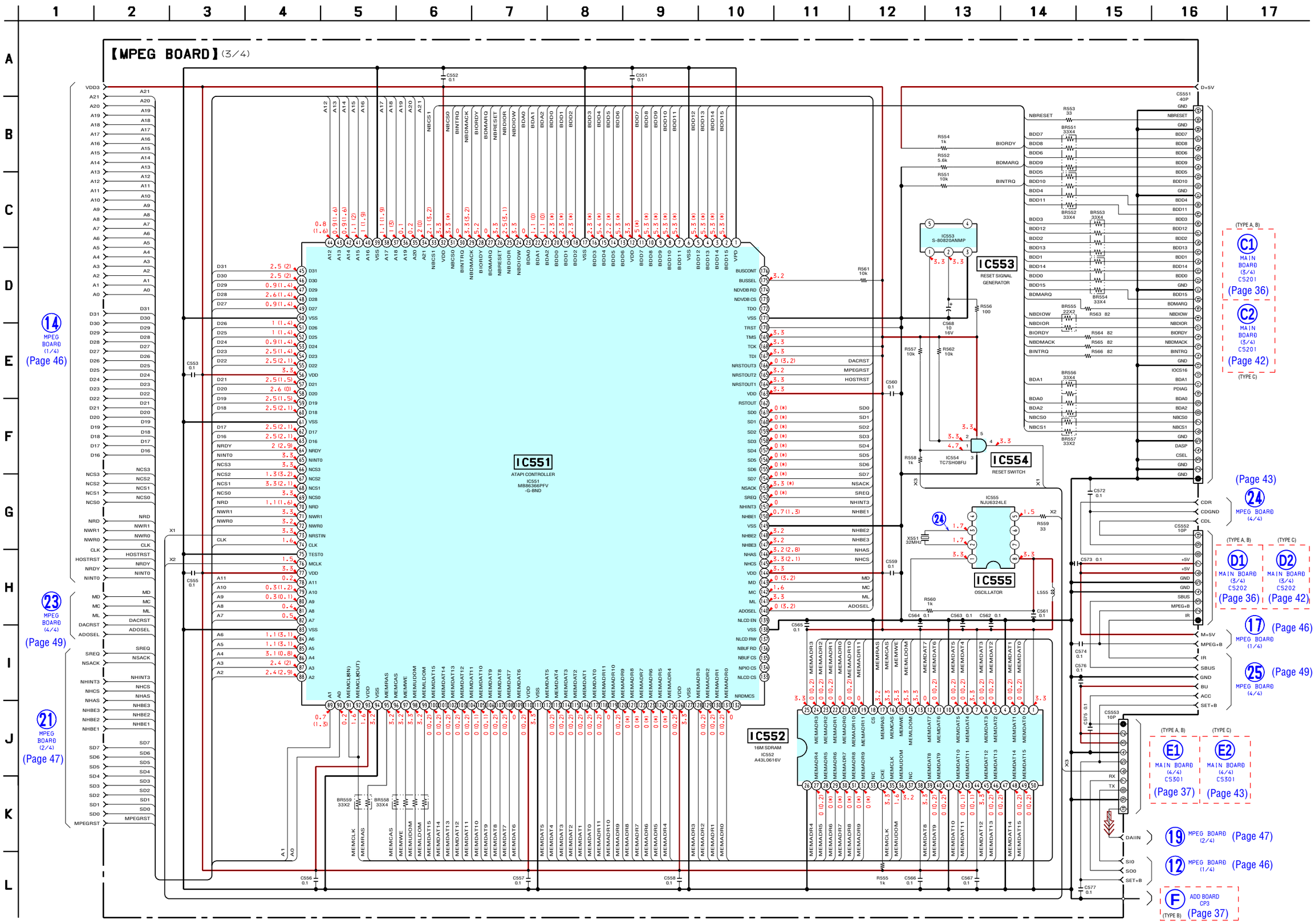
6-22. SCHEMATIC DIAGRAM – MPEG Section (1/4) – • See page 50 for Waveforms. • See page 51 for IC Block Diagrams.



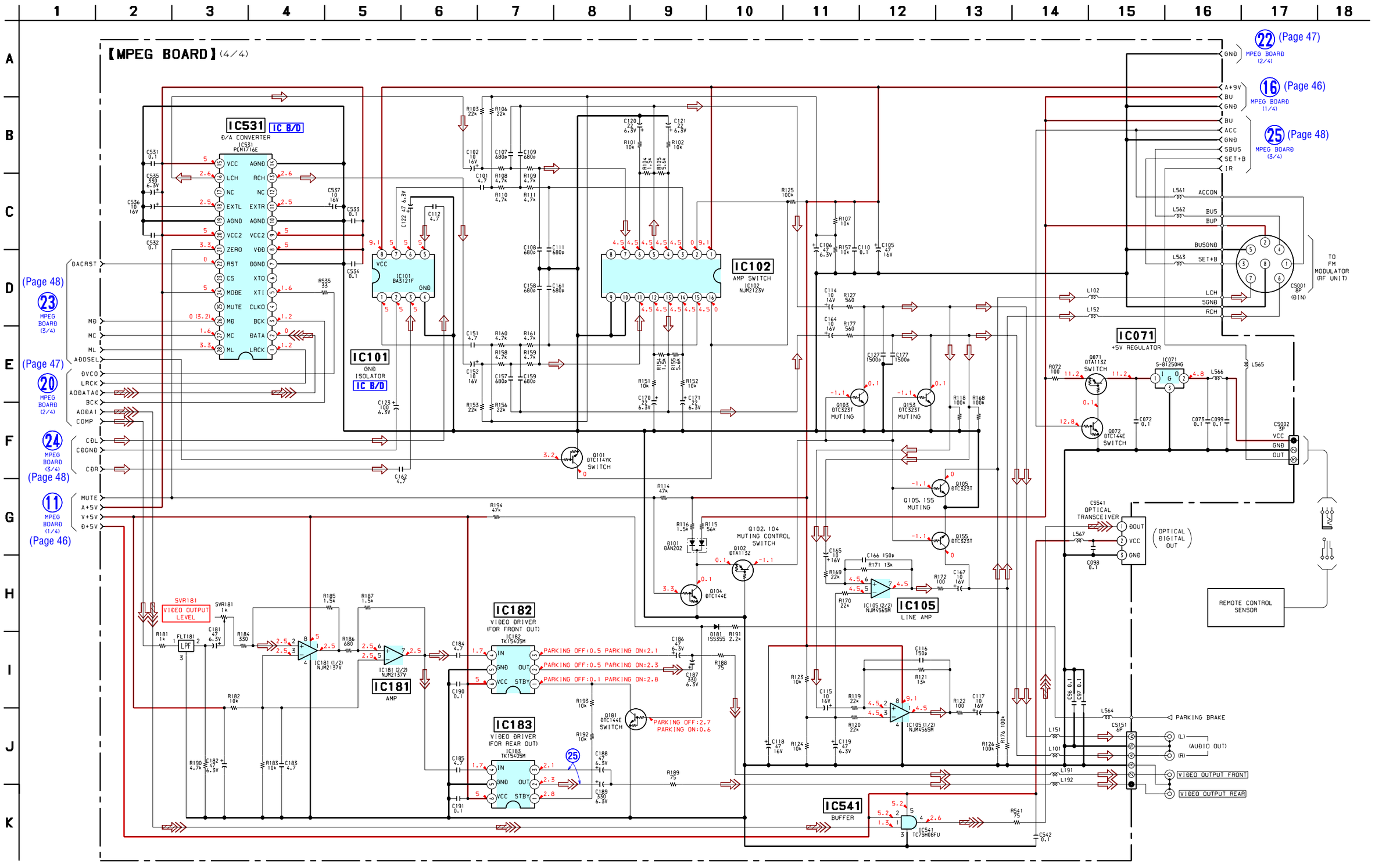
6-23. SCHEMATIC DIAGRAM – MPEG Section (2/4) – • See page 50 for Waveforms.



6-24. SCHEMATIC DIAGRAM – MPEG Section (3/4) – • See page 50 for Waveform.



6-25. SCHEMATIC DIAGRAM – MPEG Section (4/4) – • See page 50 for Waveforms. • See page 51 for IC Block Diagrams.

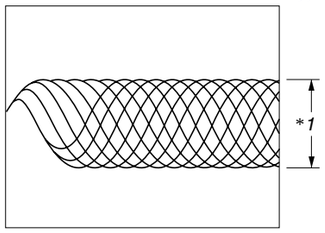


• **Waveforms**

– MAIN Board –

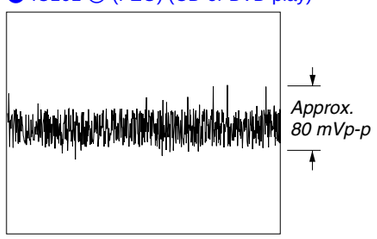
– MPEG Board –

❶ IC101 ㊺ (RFO) (CD or DVD play)

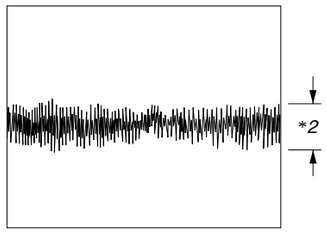


*1) CD play : 2.2 Vp-p
DVD play : 2 Vp-p

❷ IC101 ㉞ (FEO) (CD or DVD play)

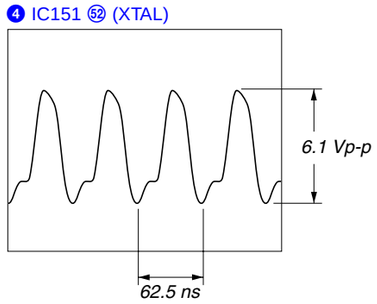


❸ IC101 ㉝ (TEO) (CD or DVD play)

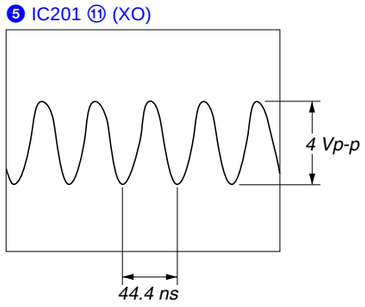


*2) CD play : Approx. 600 mVp-p
DVD play : Approx. 200 mVp-p

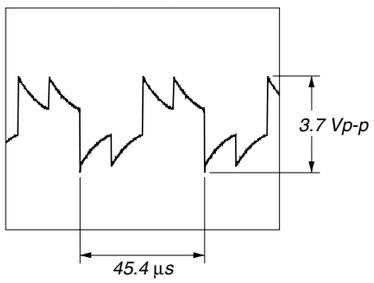
❹ IC151 ㊷ (XTAL)



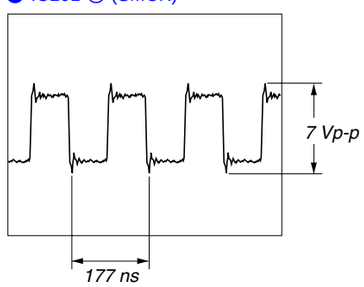
❺ IC201 ⑪ (XO)



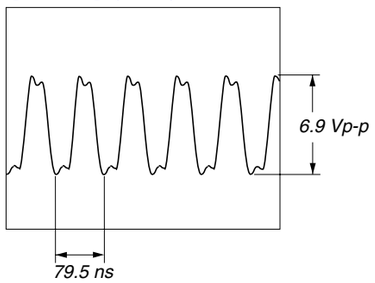
❻ IC201 ⑱ (VPFC)



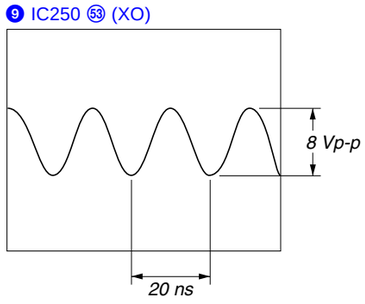
❼ IC201 ㊼ (SMCK)



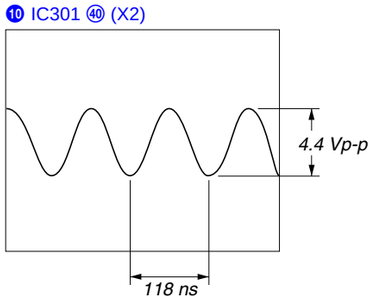
❽ IC201 ㉝ (PDCK)



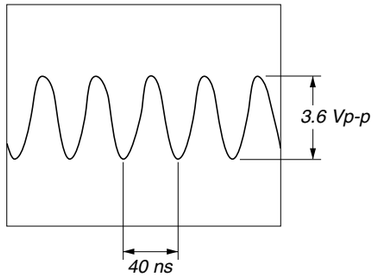
❾ IC250 ㊸ (XO)



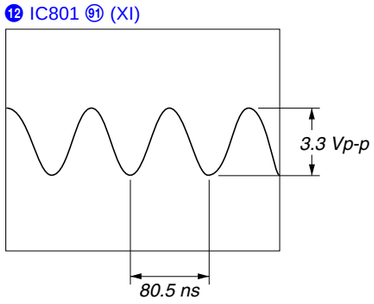
❿ IC301 ㊵ (X2)



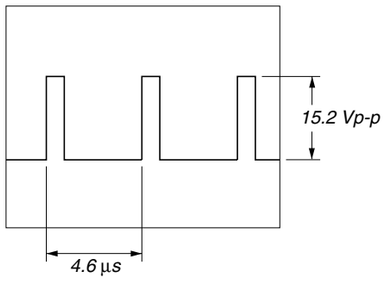
⓫ IC801 ⑤ (CLK)



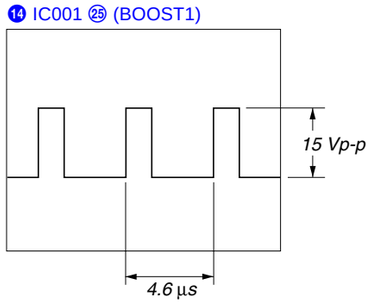
⓬ IC801 ㉛ (XI)



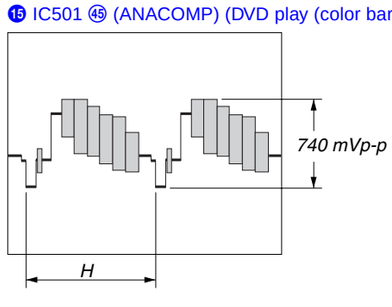
⓭ IC001 ⑱ (BOOST2)



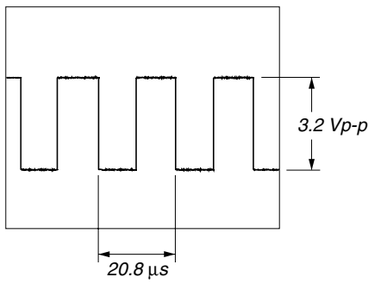
⓮ IC001 ㉕ (BOOST1)



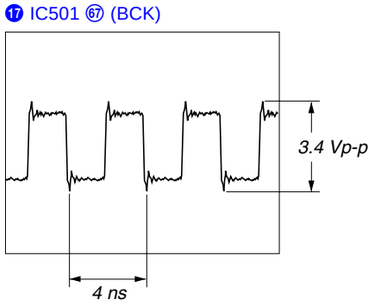
⓯ IC501 ㊺ (ANACOMP) (DVD play (color bars))



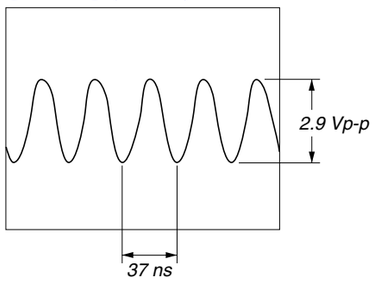
⓰ IC501 ㊺ (LRCK)



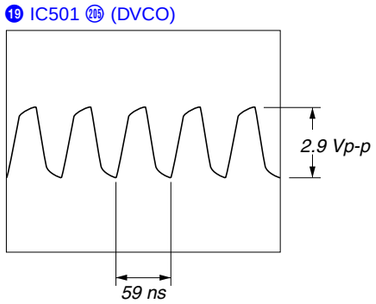
⓱ IC501 ㊼ (BCK)



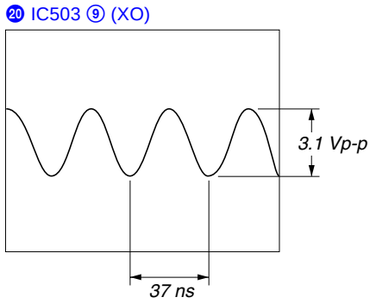
⓲ IC501 ⑰ (ICK27M)



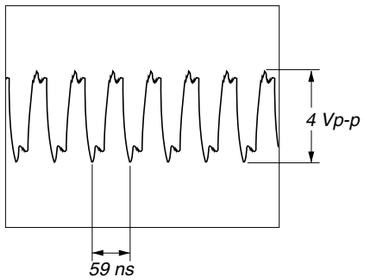
⓳ IC501 ㉘ (DVCO)



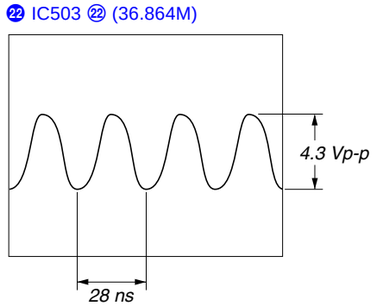
⓴ IC503 ⑨ (XO)



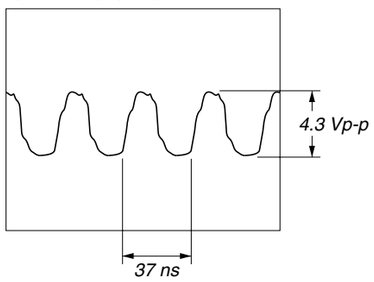
㉑ IC503 ⑳ (16.9344M)



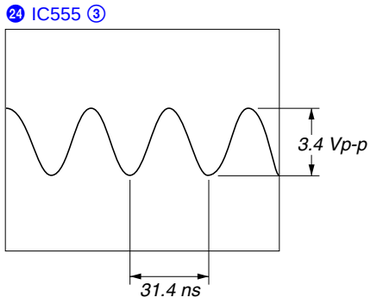
㉒ IC503 ㉒ (36.864M)



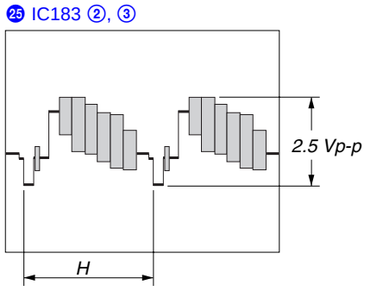
㉓ IC503 ㉔ (27M)



㉔ IC555 ③



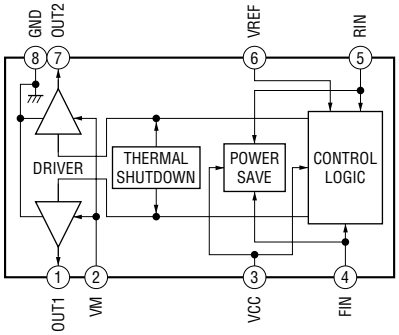
㉕ IC183 ②, ③



• **IC Block Diagrams**

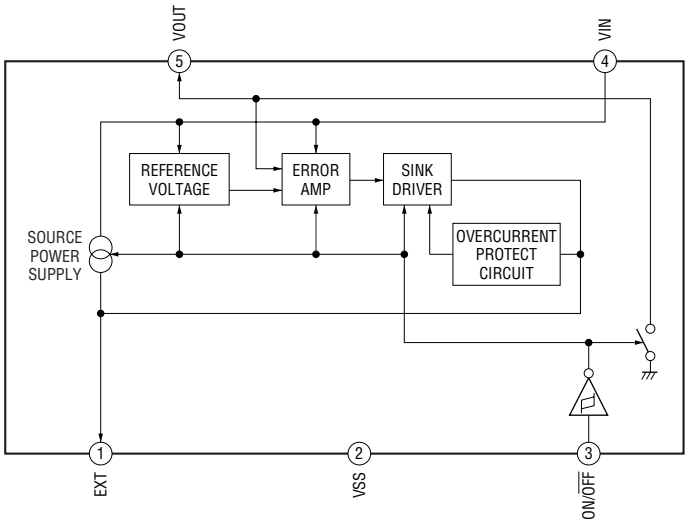
– MAIN board –

IC304, 305 BA6289F

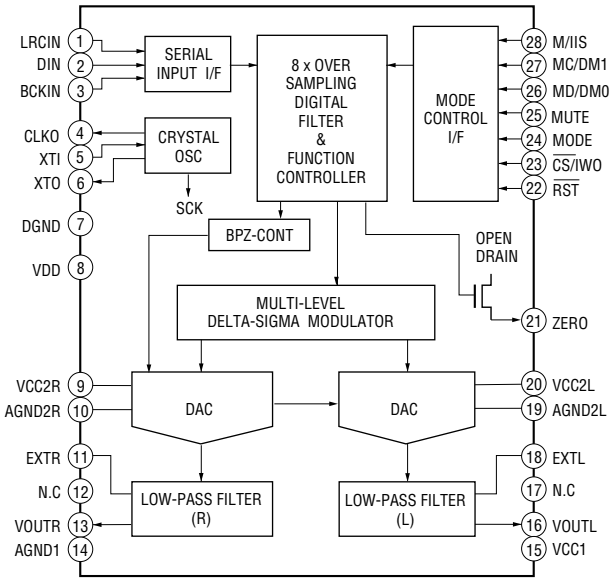


– MPEG board –

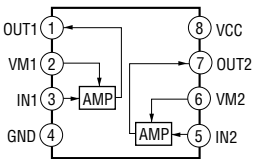
IC041, 051 S-816A25AMC-BAA-T2



IC531 PCM1716E-BT2



IC101 BA3121F



6-26. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC301 μPD780023AGK-B78-9ET (MECHANISM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	LD+	O	Loading motor drive signal output for loading out direction
2	LD–	O	Loading motor drive signal output for loading in direction
3	ELV+	O	Elevator motor drive signal output for elevator up direction
4	ELV–	O	Elevator motor drive signal output for elevator down direction
5	POWER	O	Mechanism power supply on/off control signal output
6	MPEG+B	O	MPEG power supply on/off control signal output
7	CD+B	O	CD power supply on/off control signal output
8	NC	O	Not used (open)
9	VSS0	—	Ground terminal
10	VDD0	—	Power supply terminal (+5V)
11 to 13	NC	O	Not used (open)
14	SBUS	I	BUS control signal input from the remote commander
15 to 19	NC	O	Not used (open)
20	CLK	O	Clock signal output for reset
21	DIN	I	RS-232C serial data input
22	DOUT	O	RS-232C serial data output
23	NC	O	Not used (open)
24	VDD1	—	Power supply terminal (+5V)
25	AVSS	—	Ground terminal
26	UPSW	I	Elevator top position detection signal input
27	LOWSW	I	Elevator bottom position detection signal input
28	LOADSW	I	Loading out detection signal input
29	CLAMPSW	I	Loading in detection signal input
30	NC	O	Not used (open)
31	DISC.C	I	Elevator position detection pulse input
32	NC	O	Not used (pull up)
33	DISCON	I	Disc detection signal input
34	AVREF	I	Reference voltage (+5V) input terminal
35	AVDD	—	Power supply terminal (+5V)
36	RESET	I	Reset signal input
37	XT2	O	Sub system clock output Not used (open)
38	XT1	I	Sub system clock input Not used (fixed at “H”)
39	VPP	—	Not used (fixed at “L”)
40	X2	O	Main system clock output terminal (8.388MHz)
41	X1	I	Main system clock input terminal (8.388MHz)
42	VSS1	—	Ground terminal
43	BATT	I	Battery low detection signal input
44	CE	I	Accessory detection signal input
45	EJECT	I	Magazine eject key input
46	REQ	I	BUS control signal input from the remote commander
47	REMIN	I	Wireless remote signal input
48	NC	O	Not used (open)
49	PUNCH/SANYO	I	Model destination setting terminal
50	6/10CD	I	Magazine type setting terminal
51 to 63	NC	O	Not used (open)
64	MAGSW	I	Magazine in/out detection signal input

• **MPEG BOARD IC801 MB91101APFV-G-BND (CPU)**

Pin No.	Pin Name	I/O	Description
1	CSIL	O	Not used (open)
2	CSIH	O	Not used (open)
3	/DWI	O	Not used (open)
4	VCC3	—	Power supply terminal (+3.3V)
5	CLK	O	System clock signal output
6, 7	/CS5, /CS4	O	Not used (open)
8 to 11	/CS3 to /CS0	O	Chip select signal output
12	/NMI	I	Non-maskable interrupt input terminal Fixed at “H” in this set
13	/HST	I	Not used (fixed at “H”)
14	/RST	I	Reset signal input
15	VSS	—	Ground terminal
16 to 18	MD0 to MD1	I	Mode setting terminal Fixed at “L” in this set
19	/RDY	I	Ready signal input
20	/BGRNT	O	Not used (open)
21	BRD	O	Not used (open)
22	/RD	O	Read enable signal output
23, 24	/WR0, /WR1	O	Write enable signal output
25 to 39	D16 to D30	I/O	Two-way data bas
40	VSS	—	Ground terminal
41	D31	I/O	Two-way data bas
42	A0	O	Address signal output
43	VCC5	—	Power supply terminal (+3.3V)
44 to 64	A1 to A21	O	Address signal output
65	VSS	—	Ground terminal
66 to 68	A22 to A24	O	Address signal output Not used (pull up)
69	AVCC	—	Power supply terminal (+3.3V)
70	AVRH	I	Reference voltage input (+3.3V) terminal
71	AVSS	—	Ground terminal
72 to 75	AN0 to AN3	I	Setting terminal for the version Fixed at “L”
76	SI0	I	RS-232C serial data input
77	SO0	O	RS-232C serial data output
78	PF2	O	DVD/CD switching signal output
79	PF3	O	Muting control signal output
80 to 83	PF4 to PF7	O	Not used (open)
84, 85	PE7, PE6	O	Not used (open)
86	NTSC/PAL	I	NTSC/PAL setting terminal “L”: PAL, “H”: NTSC
87	PE4	O	Not used (open)
88, 89	INT3, INT2	O	Not used (open)
90	VSS	—	Ground terminal
91	X1	O	System clock output terminal (12.5MHz)
92	X0	I	System clock input terminal (12.5MHz)
93	VCC5	—	Power supply terminal (+3.3V)
94	INT1	O	Not used (open)
95	NINT0	I	Interrupt status input
96	RAS0	O	Row address strobe signal output

Pin No.	Pin Name	I/O	Description
97	CS0L	O	Column address strobe signal output
98	CS0H	O	Column address strobe signal output
99	NDW0	O	Write enable signal output
100	RAS1	O	Not used (open)

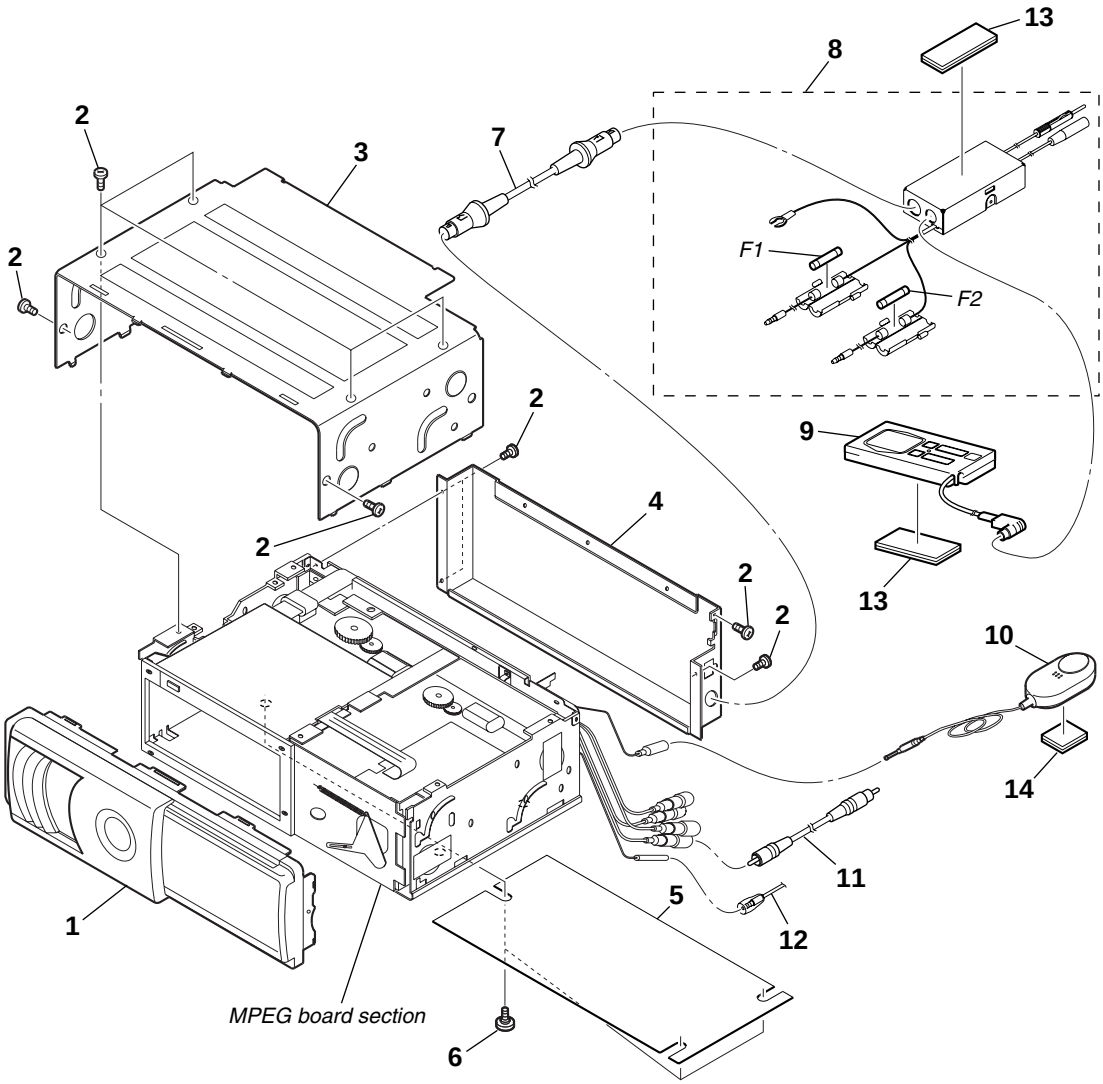
SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

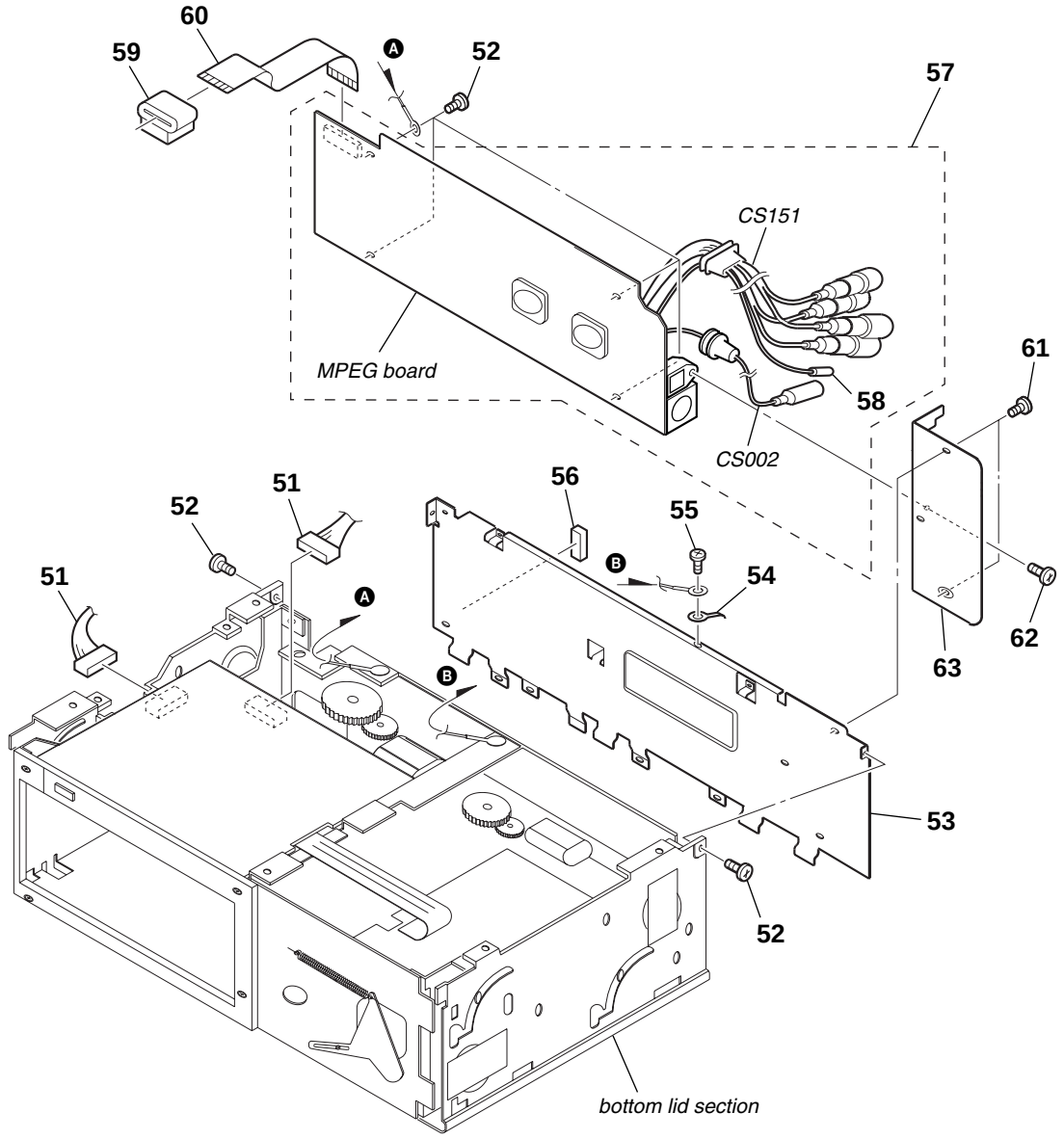
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. FRONT PANEL, CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	9-885-016-82	ASSY, PANEL, FRONT	
2	9-885-016-85	SCREW S-TPG BIN 2.6X5	
3	9-885-016-84	ASSY, CABINET	
4	9-885-016-99	ASSY, CHASSIS, REAR	
5	9-885-016-81	LABEL, CAUTION	
6	9-885-016-80	FIXER, SPECIAL SCREW	
7	1-823-372-11	CORD (WITH CONNECTOR) (DIN) 8P (for RF UNIT CONNECTING)	
8	1-476-922-11	RF UNIT (HIDEAWAY)	
9	1-476-923-11	WIRED COMMANDER (RM-X130)	
10	1-476-924-11	SENSOR, REMOTE CONTROL	
11	1-823-373-11	CORD (WITH PIN PLUG) (VIDEO)	
12	1-823-374-11	CORD, CONNECTION (PARKING)	
13	9-885-016-07	TAPE, MAGIC	
14	4-916-258-01	TAPE, MAGIC	
F1	1-532-417-11	FUSE, GLASS CYLINDRICAL (2A)	
F2	1-532-421-11	FUSE, GLASS CYLINDRICAL (5A)	

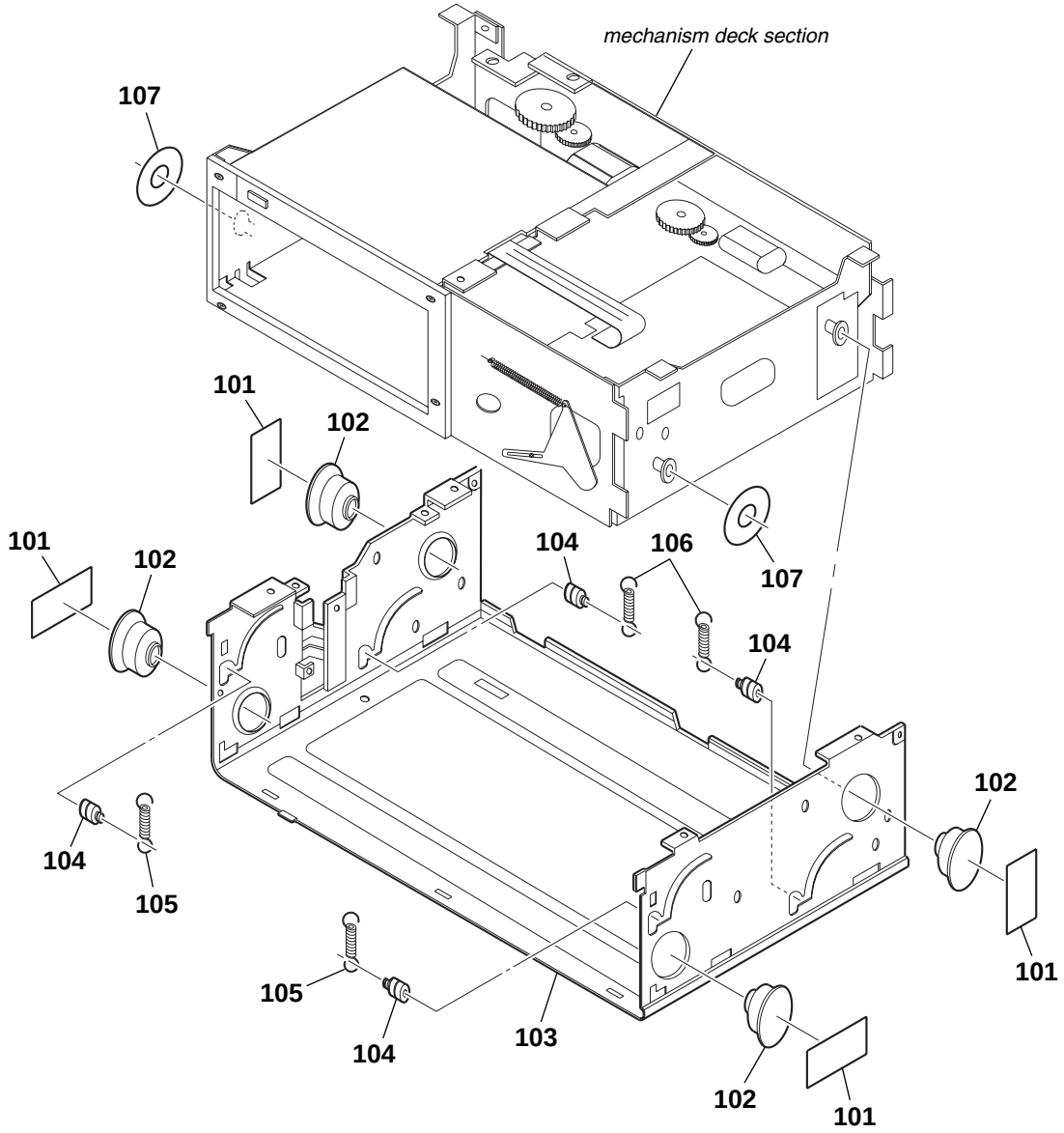
7-2. MPEG BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	9-885-018-73	WIRE, HARNESS, 10P 180mm	
52	9-885-016-95	SCREW S-TPG BIN 2.6X5	
53	9-885-016-93	BRACKET-E, PCB	
54	9-885-017-00	LUG	
55	9-885-018-07	SCREW S-TPG BIN 2X4	
56	9-885-016-94	SPACER, PCB	
57	9-885-016-37	MPEG BOARD, COMPLETE	
58	9-885-016-79	BRACKET-E, SOCKET	
59	9-885-018-74	CORE ASSY	

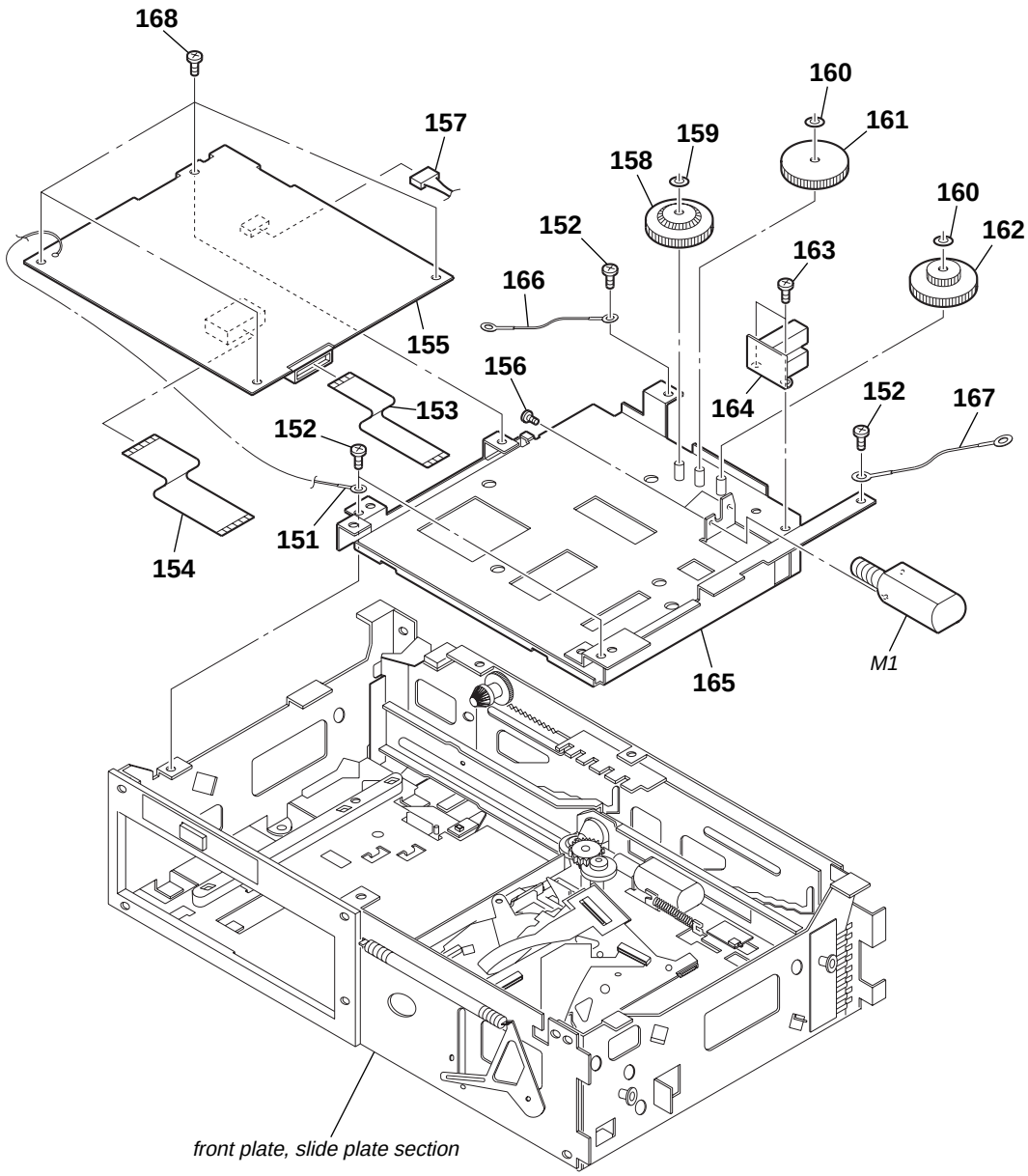
Ref. No.	Part No.	Description	Remark
60	9-885-018-72	WIRE, 40P-102mm	
61	9-885-016-85	SCREW S-TPG BIN 2.6X5	
62	9-885-016-98	SCREW S-TPG PAN 3X8	
63	9-885-016-97	BRACKET-E, CORD	
CS002	9-885-016-39	DIN CORD (for REMOTE CONTROL SENSOR CONNECTING)	
CS151	9-885-016-41	CORD, RCA (AUDIO OUTPUT, VIDEO OUTPUT FRONT/REAR, PARKING BRAKE)	

7-3. BOTTOM LID SECTION



Ref. No.	Part No.	Description	Remark
101	9-885-016-92	CUSHION	
102	9-885-016-90	DAMPER	
103	9-885-016-86	ASSY, LID, BOTTOM	
104	9-885-016-87	SHAFT, DMP	
105	9-885-016-88	SPRING, TENS, DAMPER	
106	9-885-016-89	SPRING, TENS, DAMPER, R	
107	9-885-016-91	SHEET	

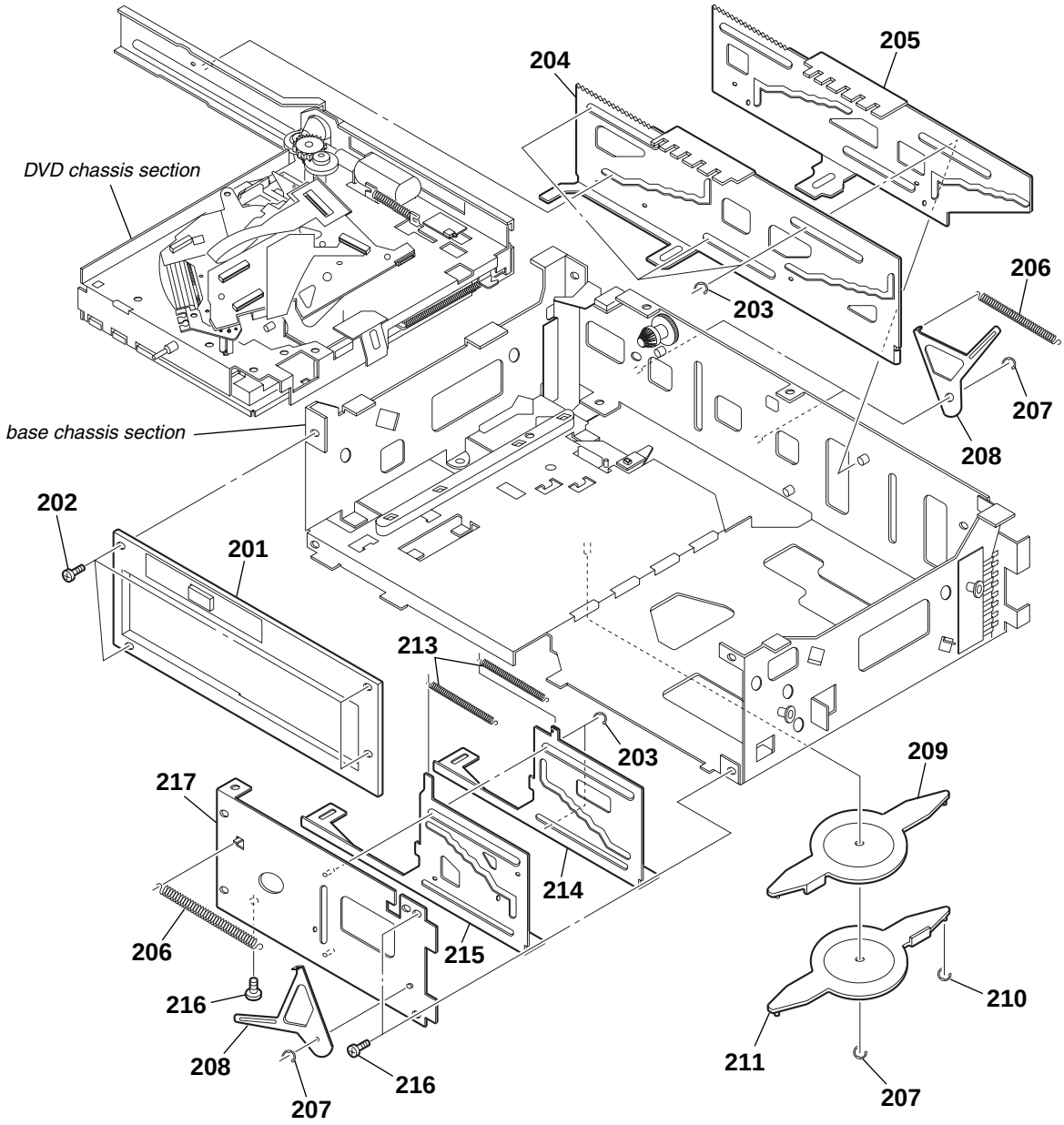
7-4. MECHANISM DECK (TOP CHASSIS SECTION)



Ref. No.	Part No.	Description	Remark
151	9-885-018-14	WIRE, GROUND	
152	9-885-018-06	SCREW S-TPG PAN PCS 2X4	
153	9-885-018-12	WIRE, 25P-91mm	
154	9-885-018-13	WIRE, 30P-117mm	
155	9-885-018-15	MAIN BOARD, COMPLETE (TYPE A, B)	
155	9-885-071-75	MAIN BOARD, COMPLETE (TYPE C)	
156	9-885-018-04	SCREW PAN PCS 2X2.5	
157	9-885-018-70	CORD, PRESSURE WELDING (5P-100mm)	
158	9-885-017-06	GEAR, C	
159	9-885-017-08	MOUNT-M, SPECIAL WASHER	

Ref. No.	Part No.	Description	Remark
160	9-885-017-07	MOUNT-M, SPECIAL WASHER	
161	9-885-017-05	GEAR, B	
162	9-885-017-04	GEAR, A	
163	9-885-018-05	SCREW S-TPG BIN 2X3	
164	9-885-018-68	PHOTO BOARD	
165	9-885-017-01	ASSY, CHASSIS, TOP	
166	9-885-017-11	ASSY, LUG	
167	9-885-017-10	ASSY, LUG	
168	9-885-018-07	SCREW S-TPG BIN 2X4	
M1	9-885-017-09	ASSY, MOTOR, DC (ELEVATOR)	

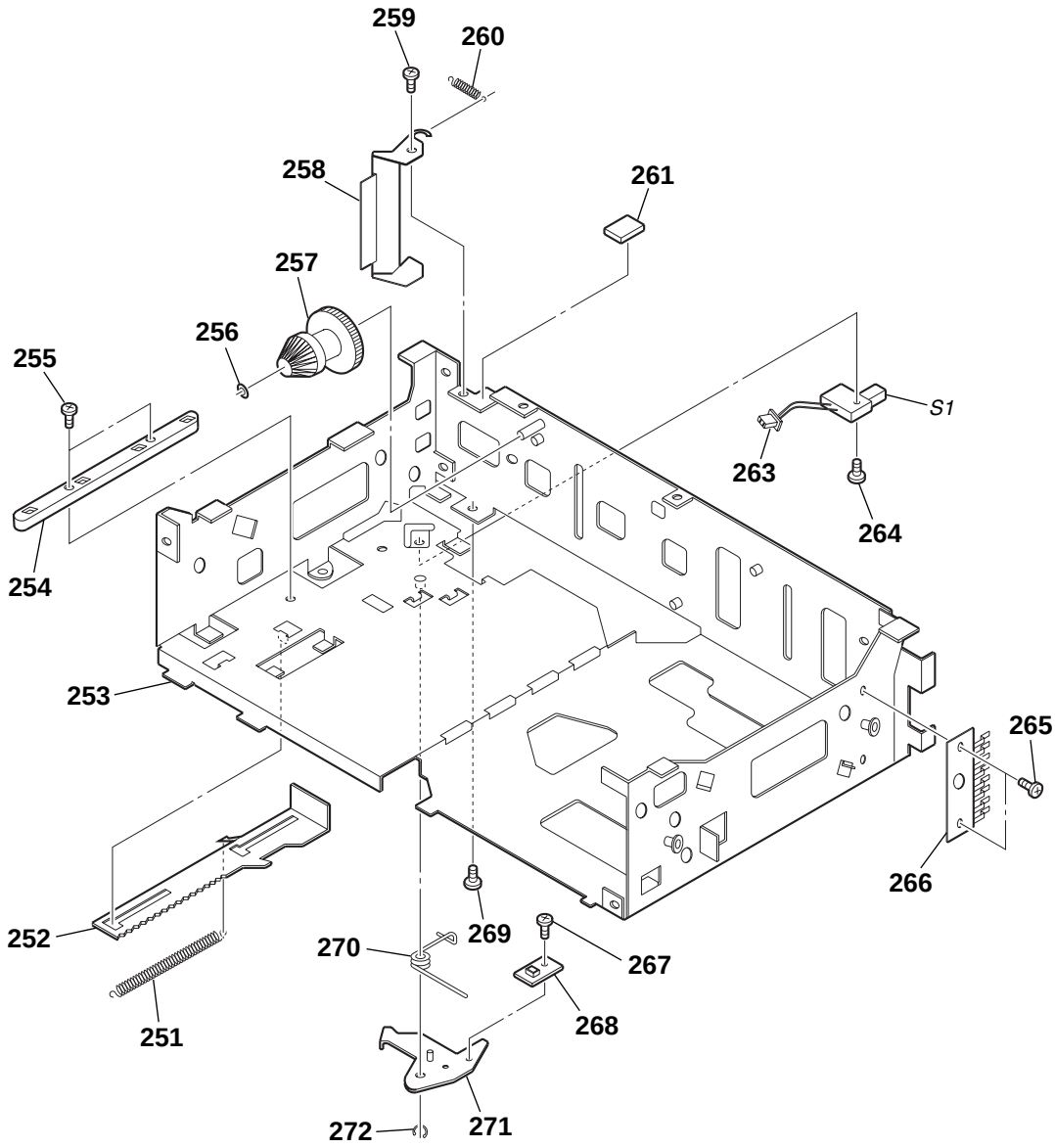
7-5. MECHANISM DECK (FRONT PLATE, SLIDE PLATE SECTION)



Ref. No.	Part No.	Description	Remark
201	9-885-018-02	ASSY, PANEL, MECHANISM	
202	9-885-018-03	SPECIAL SCREW	
203	9-885-017-17	SPECIAL WASHER	
204	9-885-017-15	PLATE, SLIDE, C	
205	9-885-017-16	PLATE, SLIDE, D	
206	9-885-017-19	SPRING, TENS, ELEV	
207	9-885-017-21	RING E 2.5	
208	9-885-017-18	PLATE, ELEVATOR	

Ref. No.	Part No.	Description	Remark
209	9-885-017-23	ASSY, ARM, SLIDE, B	
210	9-885-017-25	SPECIAL WASHER	
211	9-885-017-22	ASSY, ARM, SLIDE	
213	9-885-017-45	SPRING, TENS, SLIDE, PLATE	
214	9-885-017-42	PLATE, SLIDE, A	
215	9-885-017-43	PLATE, SLIDE, B	
216	9-885-018-06	SCREW S-TPG PAN PCS 2X4	
217	9-885-017-41	ASSY, PLATE, FRONT	

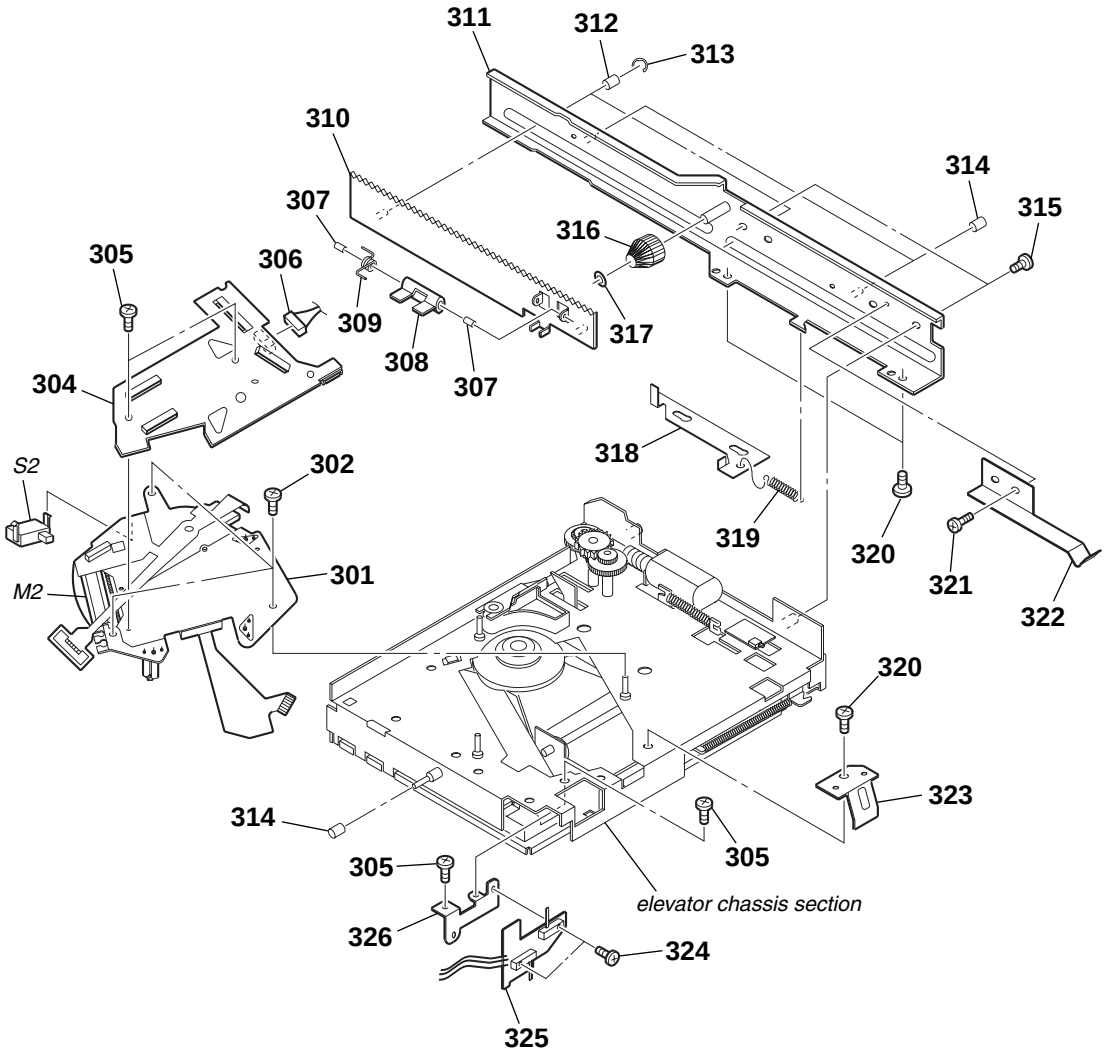
7-6. MECHANISM DECK (BASE CHASSIS SECTION)



Ref. No.	Part No.	Description	Remark
251	9-885-017-33	SPRING, TENS, EJECT	
252	9-885-017-32	LEVER, EJECT	
253	9-885-017-12	ASSY, CHASSIS, BASE	
254	9-885-017-31	GUIDE	
255	9-885-018-09	SCREW S-TPG PAN PCS 2X3	
256	9-885-017-08	MOUNT-M, SPECIAL WASHER	
257	9-885-017-29	GEAR, PLATE	
258	9-885-017-26	STOPPER, CAREER	
259	9-885-018-04	SCREW S-TPG BIN 2X3	
260	9-885-017-28	SPRING, TENS STOPPER	
261	9-885-017-13	CUSHION	

Ref. No.	Part No.	Description	Remark
263	9-885-017-38	CORD, PRESSURE WELDING (2P-160mm)	
264	9-885-017-40	SPECIAL SCREW	
265	9-885-018-08	SCREW S-TPG PAN PCS 2X2.5	
266	9-885-017-14	SPRING, PLATE, BASE	
267	9-885-018-10	SCREW S-TPG PAN PCS 2X3	
268	9-885-017-35	STOPPER	
269	9-885-017-27	SPECIAL SCREW	
270	9-885-017-36	SPRING, TORS, LEVER, LOCK	
271	9-885-017-34	ASSY, LEVER, LOCK	
272	9-885-017-21	RING E 2.5	
S1	9-885-017-39	SWITCH, PUSH (MAGAZINE IN/OUT DETECT)	

7-7. MECHANISM DECK (DVD CHASSIS SECTION)

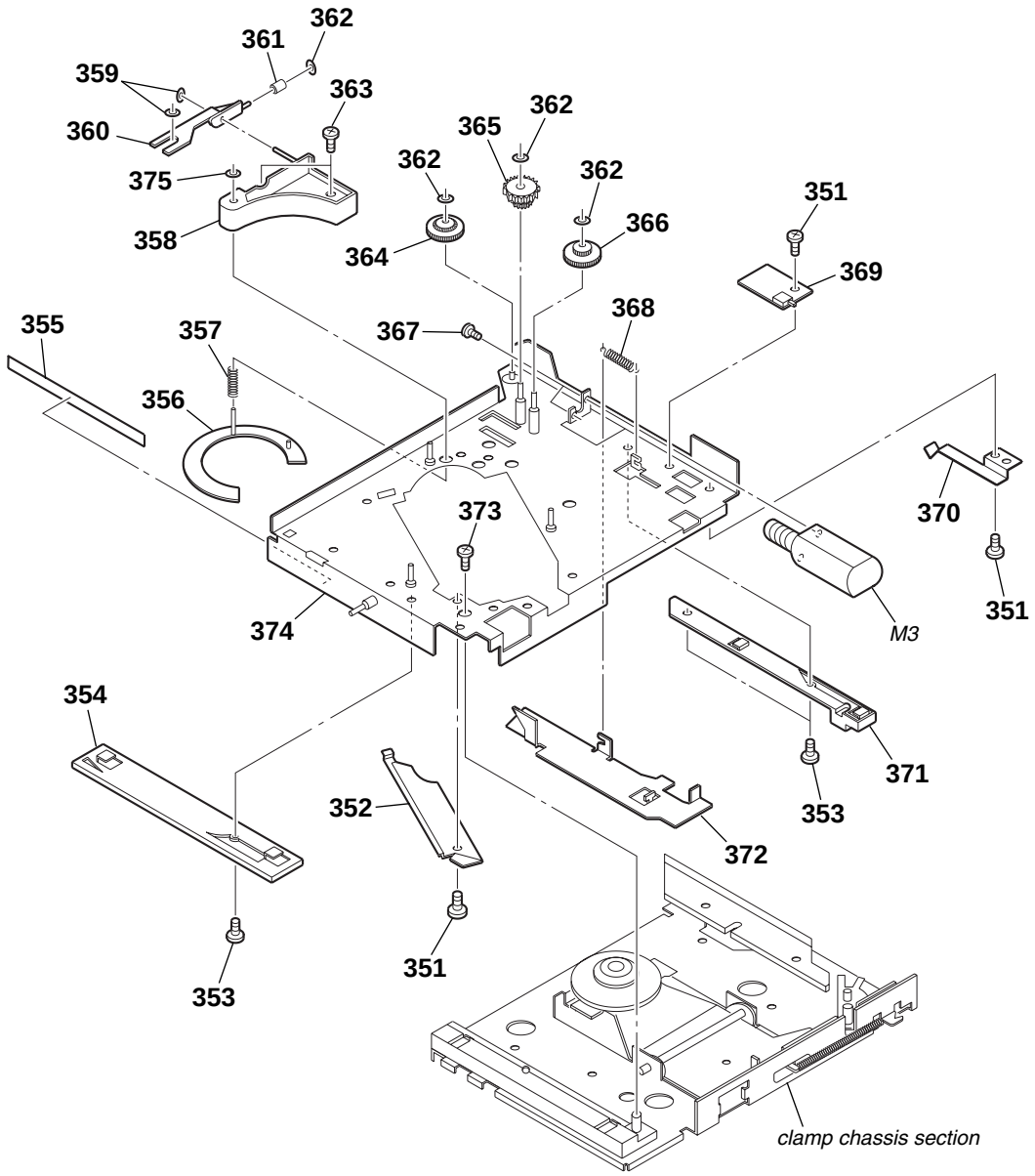


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠301	9-885-017-46	ASSY, CHASSIS, DVD	
302	9-885-018-07	SCREW S-TPG BIN 2X4	
304	9-885-018-50	CD BOARD	
305	9-885-018-06	SCREW S-TPG PAN PCS 2X4	
306	9-885-018-67	CORD, PRESSURE WELDING (4P-50mm)	
307	9-885-017-81	PIN PARALLEL 1.5X9	
308	9-885-017-80	HOOK	
309	9-885-017-82	SPRING, TORS, HOOK	
310	9-885-017-76	ASSY, LEVER, SLIDE, LOADING	
311	9-885-017-73	ASSY, PLATE, SLIDE, ELV	
312	9-885-017-78	SLEEVE, A	
313	9-885-017-17	SPECIAL WASHER	
314	9-885-017-20	SLEEVE, B	
315	9-885-018-05	SCREW S-TPG BIN 2X3	

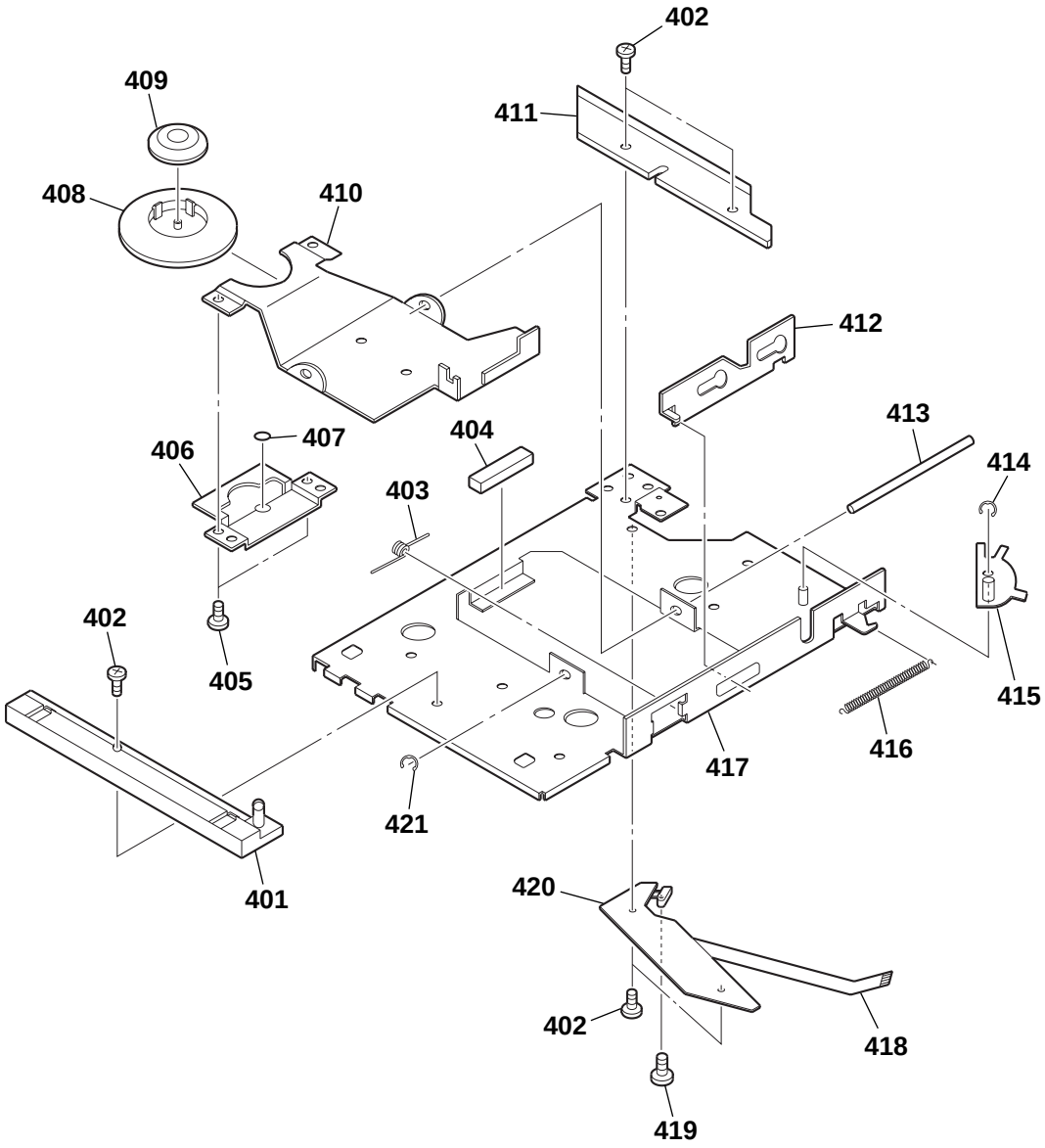
Ref. No.	Part No.	Description	Remark
316	9-885-017-83	GEAR, H	
317	9-885-017-07	MOUNT-M, SPECIAL WASHER	
318	9-885-017-74	LEVER, SWITCH	
319	9-885-017-75	SPRING, TENS, SW, LEVER	
320	9-885-018-10	SCREW S-TPG PAN PCS 2X3	
321	9-885-018-08	SCREW S-TPG PAN PCS 2X2.5	
322	9-885-017-77	SPRING, PLATE, L, LEVER	
323	9-885-017-62	SPRING, PLATE, ELEVATOR	
324	9-885-018-11	SCREW S-TPG PAN 2X7	
325	9-885-018-59	SW BOARD	
326	9-885-017-63	BRACKET-E, SWITCH	
M2	9-885-017-47	ASSY, MOTOR, DC (SLED)	
S2	9-885-017-48	SWITCH, PUSH, 1P-1T (LIMIT)	

7-8. MECHANISM DECK (ELEVATOR CHASSIS SECTION)



Ref. No.	Part No.	Description	Remark
351	9-885-018-10	SCREW S-TPG PAN PCS 2X3	
352	9-885-017-72	PLATE, COVER, PU	
353	9-885-018-09	SCREW S-TPG PAN PCS 2X3	
354	9-885-017-60	GUIDE, B	
355	9-885-017-50	SHEET	
356	9-885-017-69	ASSY, PLATE, DISC	
357	9-885-017-70	SPRING, COMP, DISC, LEVER	
358	9-885-017-65	BRACKET-E, DISC	
359	9-885-017-08	MOUNT-M, SPECIAL WASHER	
360	9-885-017-66	LEVER, DISC	
361	9-885-017-67	SLEEVE, D	
362	9-885-017-07	MOUNT-M, SPECIAL WASHER	
363	9-885-018-06	SCREW S-TPG PAN PCS 2X4	
364	9-885-017-54	GEAR, G	
365	9-885-017-53	GEAR, LB	
366	9-885-017-52	GEAR, LA	
367	9-885-018-04	SCREW PAN PCS 2X2.5	
368	9-885-017-58	SPRING, TENS, DISC, LEVER, B	
369	9-885-018-65	LOAD IN BOARD	
370	9-885-017-56	SPRING, PLATE	
371	9-885-017-59	GUIDE, A	
372	9-885-017-57	LEVER, DISC, A	
373	9-885-017-61	SPECIAL SCREW	
374	9-885-017-49	ASSY, CHASSIS, ELEVATOR	
375	9-885-028-35	WASHER	
M3	9-885-017-09	ASSY, MOTOR, DC (LOADING)	

7-9. MECHANISM DECK (CLAMP CHASSIS SECTION)



Ref. No.	Part No.	Description	Remark
401	9-885-017-88	GUIDE, D	
402	9-885-018-10	SCREW S-TPG PAN PCS 2X3	
403	9-885-017-96	SPRING, TORS, CLAMP	
404	9-885-028-34	CUSHION	
405	9-885-018-08	SCREW S-TPG PAN PCS 2X2.5	
406	9-885-017-97	PLATE, FLANGE	
407	9-885-017-98	SHEET	
408	9-885-017-99	FLANGE, A	
409	9-885-018-00	FLANGE, B	
410	9-885-017-93	ASSY, ARM, CLAMP	
411	9-885-017-87	GUIDE, C	

Ref. No.	Part No.	Description	Remark
412	9-885-017-91	LEVER, CLAMP, B	
413	9-885-017-94	SHAFT, CL, ARM, A	
414	9-885-017-21	RING E 2.5	
415	9-885-017-89	ASSY, LEVER, CLAMP, A	
416	9-885-017-92	SPRING, TENS, DISC, LEVER, B	
417	9-885-017-85	ASSY, CHASSIS, CLAMP	
418	9-885-018-63	WIRE, 4P-91mm	
419	9-885-017-40	SPECIAL SCREW	
420	9-885-018-61	SENSOR BOARD	
421	9-885-017-95	RING E 1.5	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		ADD BOARD (TYPE B)			
		**********			
		< CAPACITOR >			
C401	1-117-681-11	ELECT	100uF	20%	16V
		< DIODE >			
DZ401	1-809-610-11	DIODE MTZJ20B-T-77			
		< TRANSISTOR >			
Q401	8-729-822-72	TRANSISTOR 2SD1815-FAS-TL			
		< RESISTOR >			
R401	1-218-818-11	RES, CHIP	220	5%	1/2W
**********					
	9-885-018-50	CD BOARD			
		*********			
		< CAPACITOR >			
C1	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3	9-885-018-58	TANTALUM	33uF		10V
C4	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C7	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CS2	9-885-018-55	SOCKET, CONNECTOR 20P			
CS3	9-885-018-54	PLUG, CONNECTOR 4P			
CS4	9-885-018-53	SOCKET, CONNECTOR 4P			
CS6	9-885-018-46	SOCKET, CONNECTOR 25P			
CS7	9-885-018-47	SOCKET, CONNECTOR 30P			
CS8	9-885-018-47	SOCKET, CONNECTOR 30P			
		< IC >			
IC1	8-759-471-18	IC BA6849FP-Y			
		< LED >			
LED1	9-885-018-56	LED AN1102W-3 (DISC DETECT)			
		< RESISTOR >			
R1	1-216-809-11	RES, CHIP	100	5%	1/16W
R2	1-216-809-11	RES, CHIP	100	5%	1/16W
R3	9-885-028-41	RES, CHIP	0.56		1/4W
R5	1-216-815-11	RES, CHIP	330	5%	1/16W
**********					
	9-885-018-65	LOAD IN BOARD			
		**********			
	9-885-018-67	CORD, PRESSURE WELDING (4P-50mm)			
		< SWITCH >			
SW302	9-885-018-66	SWITCH, MICRO (LOADING IN DETECT)			
**********					
	9-885-018-15	MAIN BOARD, COMPLETE (TYPE A, B)			
		**********			
		< CAPACITOR >			
C100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C104	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C105	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C115	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C120	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C122	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C123	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C124	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-104-852-11	TANTALUM	22uF	20%	10V

MAIN (TYPE A, B)

Ref. No.	Part No.	Description			Remark
C128	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C129	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C132	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C135	1-104-851-11	TANTALUM	10uF	20%	10V
C136	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C137	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C139	1-119-749-11	TANTALUM	33uF	20%	4V
C140	1-119-749-11	TANTALUM	33uF	20%	4V
C141	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C150	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C153	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C154	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C155	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C156	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C157	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C158	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C159	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C160	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C161	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C162	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C163	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	50V
C202	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C205	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C207	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C208	1-104-851-11	TANTALUM	10uF	20%	10V
C209	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C210	1-104-851-11	TANTALUM	10uF	20%	10V
C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C213	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C214	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C215	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C216	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C217	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C218	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C219	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C223	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C235	1-165-877-11	TANTALUM	33uF	20%	6.3V
C236	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C238	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C239	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C241	1-104-851-11	TANTALUM	10uF	20%	10V
C242	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C243	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C244	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C245	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C246	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C247	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C248	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C250	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C251	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C252	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C253	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C256	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C258	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C260	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C261	1-126-206-11	ELECT	100uF	20%	6.3V
C282	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C283	1-104-851-11	TANTALUM	10uF	20%	10V
C284	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C301	1-126-379-11	ELECT	22uF	20%	16V
C302	1-117-681-11	ELECT	100uF	20%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C304	1-126-379-11	ELECT	22uF	20%	16V
C305	9-885-018-49	DOUBLE LAYER	0.01F		5.5V
C306	1-117-681-11	ELECT	100uF	20%	16V
C307	1-128-006-11	ELECT	4.7uF	20%	25V
C308	1-117-681-11	ELECT	100uF	20%	16V
C309	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C310	1-128-006-11	ELECT	4.7uF	20%	25V
C311	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C312	1-117-681-11	ELECT	100uF	20%	16V
C313	1-124-779-00	ELECT	10uF	20%	16V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C319	1-124-779-00	ELECT	10uF	20%	16V
C320	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C322	1-164-277-11	CERAMIC CHIP	0.022uF	10%	25V
C323	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C325	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C326	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C330	1-126-379-11	ELECT	22uF	20%	16V

< CONNECTOR >

CS101	9-885-018-47	SOCKET, CONNECTOR 30P
CS102	9-885-018-46	SOCKET, CONNECTOR 25P
CS201	9-885-016-42	SOCKET, CONNECTOR 40P
CS202	9-885-018-41	PLUG, CONNECTOR 10P
CS301	9-885-018-41	PLUG, CONNECTOR 10P
CS302	9-885-018-42	PLUG, CONNECTOR 5P
CS303	9-885-018-43	PLUG, CONNECTOR 2P
CS304	9-885-018-44	SOCKET, CONNECTOR 7P

MAIN (TYPE A, B)

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D101	8-719-941-09	DIODE DAP202U			
D102	8-719-941-09	DIODE DAP202U			
D105	8-719-941-86	DIODE DAN202U			
D301	8-719-988-08	DIODE RB400D			
D302	8-719-057-55	DIODE MA152K			
D303	8-719-052-83	DIODE LFB01			
D304	8-719-057-55	DIODE MA152K			
		< IC/FET >			
IC101	9-885-018-16	IC TA1293F			
IC102	6-800-609-01	IC BA5918FP-Y			
IC103	8-759-193-04	IC RN5RG33AA			
IC104	9-885-018-18	FET MMDF2P01HD			
IC105	8-759-545-13	IC TC75S51F			
IC108	9-885-028-37	IC LM50CIM3			
IC151	9-885-028-38	IC HD64F3039TEBL18/7331AE			
IC152	8-759-426-24	IC TC7ST08FU			
IC153	9-885-018-19	IC IC-PST597EN			
IC154	8-759-096-86	IC TC7WU04FU			
IC201	9-885-018-21	IC TC9453AF			
IC202	9-885-018-23	IC MSM511666C-50TS-K-DR1			
IC250	9-885-018-29	IC TC9469BF (BS, DRY, CA)			
IC251	9-885-018-30	IC MSM514265C-50TS-K-DR1			
IC301	9-885-028-40	IC uPD780023AGK-B78-9ET			
IC303	8-759-052-52	IC L78M05T			
IC304	8-759-565-64	IC BA6289F			
IC305	8-759-565-64	IC BA6289F			
IC306	8-759-067-57	IC S-80732AN-DW			
IC307	8-759-937-55	IC S-81250HG-RD-T2			
IC308	8-759-067-57	IC S-80732AN-DW			
		< RESISTOR >			
L201	1-216-864-11	RES, CHIP	0		
L202	1-216-864-11	RES, CHIP	0		
L203	1-216-864-11	RES, CHIP	0		
		< TRANSISTOR >			
Q101	8-729-926-86	TRANSISTOR	2SB1424-R		
Q102	8-729-824-24	TRANSISTOR	2SA1338-5		
Q103	8-729-824-24	TRANSISTOR	2SA1338-5		
Q151	8-729-924-02	TRANSISTOR	DTA114YU		
Q152	8-729-824-24	TRANSISTOR	2SA1338-5		
Q201	9-885-018-26	TRANSISTOR	IMB9A		
Q202	8-729-046-73	TRANSISTOR	FMG13		
Q301	8-729-926-86	TRANSISTOR	2SB1424-R		
Q302	8-729-900-52	TRANSISTOR	DTC114YK		
Q303	8-729-901-44	TRANSISTOR	DTA114YK		
Q304	8-729-901-78	TRANSISTOR	2SC2412K-R		
		< RESISTOR >			
R110	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R111	1-216-833-11	RES, CHIP	10K	5%	1/16W
R112	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R113	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R114	1-216-834-11	RES, CHIP	12K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R115	1-216-833-11	RES, CHIP	10K	5%	1/16W
R116	1-216-809-11	RES, CHIP	100	5%	1/16W
R118	1-216-845-11	RES, CHIP	100K	5%	1/16W
R119	1-216-797-11	RES, CHIP	10	5%	1/16W
R120	1-216-821-11	RES, CHIP	1K	5%	1/16W
R121	1-216-797-11	RES, CHIP	10	5%	1/16W
R122	1-216-821-11	RES, CHIP	1K	5%	1/16W
R131	1-216-831-11	RES, CHIP	6.8K	5%	1/16W
R132	1-216-828-11	RES, CHIP	3.9K	5%	1/16W
R133	1-216-838-11	RES, CHIP	27K	5%	1/16W
R134	1-216-837-11	RES, CHIP	22K	5%	1/16W
R135	1-216-839-11	RES, CHIP	33K	5%	1/16W
R151	1-216-841-11	RES, CHIP	47K	5%	1/16W
R152	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R153	1-216-841-11	RES, CHIP	47K	5%	1/16W
R154	1-216-841-11	RES, CHIP	47K	5%	1/16W
R155	1-216-841-11	RES, CHIP	47K	5%	1/16W
R156	1-216-821-11	RES, CHIP	1K	5%	1/16W
R157	1-216-841-11	RES, CHIP	47K	5%	1/16W
R158	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R159	1-216-833-11	RES, CHIP	10K	5%	1/16W
R201	1-216-841-11	RES, CHIP	47K	5%	1/16W
R202	1-216-826-11	RES, CHIP	2.7K	5%	1/16W
R206	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R207	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R209	1-216-821-11	RES, CHIP	1K	5%	1/16W
R210	1-216-833-11	RES, CHIP	10K	5%	1/16W
R216	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R217	1-216-821-11	RES, CHIP	1K	5%	1/16W
R220	1-216-861-11	RES, CHIP	2.2M	5%	1/16W
R221	1-216-853-11	RES, CHIP	470K	5%	1/16W
R222	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R230	1-216-842-11	RES, CHIP	56K	5%	1/16W
R231	1-216-838-11	RES, CHIP	27K	5%	1/16W
R232	1-216-842-11	RES, CHIP	56K	5%	1/16W
R233	1-216-838-11	RES, CHIP	27K	5%	1/16W
R237	1-216-854-11	RES, CHIP	560K	5%	1/16W
R240	1-216-809-11	RES, CHIP	100	5%	1/16W
R241	1-216-836-11	RES, CHIP	18K	5%	1/16W
R245	1-216-821-11	RES, CHIP	1K	5%	1/16W
R246	1-216-821-11	RES, CHIP	1K	5%	1/16W
R247	1-216-845-11	RES, CHIP	100K	5%	1/16W
R248	1-216-845-11	RES, CHIP	100K	5%	1/16W
R249	1-216-833-11	RES, CHIP	10K	5%	1/16W
R250	1-216-857-11	RES, CHIP	1M	5%	1/16W
R251	1-216-818-11	RES, CHIP	560	5%	1/16W
R252	1-216-818-11	RES, CHIP	560	5%	1/16W
R253	1-216-809-11	RES, CHIP	100	5%	1/16W
R254	1-216-809-11	RES, CHIP	100	5%	1/16W
R255	1-216-821-11	RES, CHIP	1K	5%	1/16W
R301	1-202-996-11	RES, CHIP	100	5%	1/2W
R303	1-216-821-11	RES, CHIP	1K	5%	1/16W
R304	9-885-018-48	RES, CHIP	1K		1/2W
R305	9-885-018-48	RES, CHIP	1K		1/2W
R306	1-216-833-11	RES, CHIP	10K	5%	1/16W
R307	9-885-018-48	RES, CHIP	1K		1/2W
R308	1-202-996-11	RES, CHIP	100	5%	1/2W
R309	1-216-833-11	RES, CHIP	10K	5%	1/16W

MAIN (TYPE A, B)

Ref. No.	Part No.	Description			Remark
R310	1-216-837-11	RES, CHIP	22K	5%	1/16W
R311	1-216-845-11	RES, CHIP	100K	5%	1/16W
R312	1-216-842-11	RES, CHIP	56K	5%	1/16W
R313	1-216-841-11	RES, CHIP	47K	5%	1/16W
R314	1-216-818-11	RES, CHIP	560	5%	1/16W
R315	1-216-841-11	RES, CHIP	47K	5%	1/16W
R316	1-216-845-11	RES, CHIP	100K	5%	1/16W
R317	1-216-841-11	RES, CHIP	47K	5%	1/16W
R318	1-216-841-11	RES, CHIP	47K	5%	1/16W
R319	1-216-819-11	RES, CHIP	680	5%	1/16W
R320	1-216-841-11	RES, CHIP	47K	5%	1/16W
R322	1-216-809-11	RES, CHIP	100	5%	1/16W
R323	1-216-821-11	RES, CHIP	1K	5%	1/16W
R325	1-216-841-11	RES, CHIP	47K	5%	1/16W
R326	1-216-816-11	RES, CHIP	390	5%	1/16W
R327	1-216-841-11	RES, CHIP	47K	5%	1/16W
R328	1-216-841-11	RES, CHIP	47K	5%	1/16W
R329	1-216-841-11	RES, CHIP	47K	5%	1/16W
R331	1-216-809-11	RES, CHIP	100	5%	1/16W
R332	1-216-809-11	RES, CHIP	100	5%	1/16W
R333	1-216-809-11	RES, CHIP	100	5%	1/16W
R335	1-216-841-11	RES, CHIP	47K	5%	1/16W
R336	1-216-833-11	RES, CHIP	10K	5%	1/16W
R337	1-216-809-11	RES, CHIP	100	5%	1/16W
R339	1-216-864-11	RES, CHIP	0		
R340	1-216-816-11	RES, CHIP	390	5%	1/16W
		< NETWORK RESISTOR >			
RA102	1-233-791-11	NETWORK RESISTOR	47K		
RA103	1-233-789-11	NETWORK RESISTOR	10K		
RA151	1-233-787-11	NETWORK RESISTOR	1K		
RA152	1-233-578-11	NETWORK RESISTOR	47K		
RA154	1-233-578-11	NETWORK RESISTOR	47K		
RA155	1-233-578-11	NETWORK RESISTOR	47K		
RA157	1-233-578-11	NETWORK RESISTOR	47K		
RA162	1-233-787-11	NETWORK RESISTOR	1K		
RA201	1-233-789-11	NETWORK RESISTOR	10K		
RA202	1-233-787-11	NETWORK RESISTOR	1K		
RA203	1-233-415-11	NETWORK RESISTOR	10K		
RA204	1-233-791-11	NETWORK RESISTOR	47K		
RA205	1-233-791-11	NETWORK RESISTOR	47K		
RA250	1-233-784-11	NETWORK RESISTOR	47		
RA251	1-233-784-11	NETWORK RESISTOR	47		
RA252	1-233-784-11	NETWORK RESISTOR	47		
RA253	1-233-784-11	NETWORK RESISTOR	47		
RA254	1-233-784-11	NETWORK RESISTOR	47		
RA255	1-233-784-11	NETWORK RESISTOR	47		
RA256	1-233-784-11	NETWORK RESISTOR	47		
RA257	1-233-784-11	NETWORK RESISTOR	47		
RA258	1-233-784-11	NETWORK RESISTOR	47		
RA259	1-233-784-11	NETWORK RESISTOR	47		
RA260	1-233-784-11	NETWORK RESISTOR	47		
RA261	1-233-784-11	NETWORK RESISTOR	47		
RA262	1-233-784-11	NETWORK RESISTOR	47		
RA263	1-233-784-11	NETWORK RESISTOR	47		
RA264	1-233-784-11	NETWORK RESISTOR	47		
RA301	1-233-578-11	NETWORK RESISTOR	47K		

MAIN (TYPE C)

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
SVR201	9-885-018-28	VARIABLE RESISTOR 4.7K			
		< SWITCH >			
SW301	9-885-018-39	SWITCH, TACT (⏏ EJECT)			
		< VIBRATOR >			
X151	9-885-018-20	VIBRATOR, CERAMIC (16MHz)			
X201	9-885-018-27	VIBRATOR, CERAMIC (22.579MHz)			
X250	9-885-018-35	VIBRATOR, CERAMIC (50MHz)			
X301	9-885-018-40	VIBRATOR, CERAMIC (8.388MHZ)			
		< DIODE >			
ZD301	9-885-018-38	DIODE 02CZ8.2-Y			
ZD302	9-885-018-38	DIODE 02CZ8.2-Y			
ZD303	9-885-018-37	DIODE 02CZ6.2-Y			
**********					
	9-885-071-75	MAIN BOARD, COMPLETE (TYPE C)			
		**********			
		< CAPACITOR >			
C100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C104	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C105	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C115	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C120	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C121	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C122	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C123	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C124	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-104-852-11	TANTALUM	22uF	20%	10V
C128	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C129	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C132	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C134	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C135	1-104-851-11	TANTALUM	10uF	20%	10V
C136	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C137	1-162-974-11	CERAMIC CHIP	0.01uF		50V

MAIN (TYPE C)

Ref. No.	Part No.	Description			Remark
C139	1-119-749-11	TANTALUM	33uF	20%	4V
C140	1-119-749-11	TANTALUM	33uF	20%	4V
C141	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C150	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C153	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C154	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C155	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C156	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C157	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C158	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C159	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C160	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C161	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C162	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C163	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	50V
C202	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C205	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C206	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C207	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C208	1-104-851-11	TANTALUM	10uF	20%	10V
C209	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C210	1-104-851-11	TANTALUM	10uF	20%	10V
C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C212	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C213	1-164-390-11	CERAMIC CHIP	330PF	5%	50V
C214	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C215	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C216	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C217	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C218	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C219	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C223	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C235	1-165-877-11	TANTALUM	33uF	20%	6.3V
C236	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C238	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C239	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C241	1-104-851-11	TANTALUM	10uF	20%	10V
C242	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C243	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C244	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C245	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C246	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C247	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C248	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C250	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C251	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C252	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C253	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C256	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C258	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C260	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C261	1-126-206-11	ELECT	100uF	20%	6.3V
C282	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C283	1-104-851-11	TANTALUM	10uF	20%	10V
C284	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C301	1-126-379-11	ELECT	22uF	20%	16V
C302	1-117-681-11	ELECT	100uF	20%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C304	1-126-379-11	ELECT	22uF	20%	16V
C305	9-885-018-49	DOUBLE LAYER	0.01F		5.5V
C306	1-117-681-11	ELECT	100uF	20%	16V
C307	1-128-006-11	ELECT	4.7uF	20%	25V
C308	1-117-681-11	ELECT	100uF	20%	16V
C309	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C310	1-128-006-11	ELECT	4.7uF	20%	25V
C311	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C312	1-117-681-11	ELECT	100uF	20%	16V
C313	1-124-779-00	ELECT	10uF	20%	16V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C318	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C319	1-124-779-00	ELECT	10uF	20%	16V
C321	1-117-681-11	ELECT	10uF	20%	16V
C320	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C322	1-164-277-11	CERAMIC CHIP	0.022uF	10%	25V
C323	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C325	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C326	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C330	1-126-379-11	ELECT	22uF	20%	16V

< CONNECTOR >

CS101	9-885-018-47	SOCKET, CONNECTOR 30P
CS102	9-885-018-46	SOCKET, CONNECTOR 25P
CS201	9-885-016-42	SOCKET, CONNECTOR 40P
CS202	9-885-018-41	PLUG, CONNECTOR 10P
CS301	9-885-018-41	PLUG, CONNECTOR 10P
CS302	9-885-018-42	PLUG, CONNECTOR 5P
CS303	9-885-018-43	PLUG, CONNECTOR 2P
CS304	9-885-018-44	SOCKET, CONNECTOR 7P

< DIODE >

D101	8-719-941-09	DIODE DAP202U
D102	8-719-941-09	DIODE DAP202U
D105	8-719-941-86	DIODE DAN202U
D301	8-719-988-08	DIODE RB400D
D302	8-719-057-55	DIODE MA152K
D303	8-719-052-83	DIODE LFB01
D304	8-719-057-55	DIODE MA152K
DZ304	9-885-028-39	DIODE PTZ20B

MAIN (TYPE C)

Ref. No.	Part No.	Description			Remark
		< IC/FET >			
IC101	9-885-018-16	IC TA1293F			
IC102	6-800-609-01	IC BA5918FP-Y			
IC103	8-759-193-04	IC RN5RG33AA			
IC104	9-885-018-18	FET MMDF2P01HD			
IC105	8-759-545-13	IC TC75S51F			
IC108	9-885-028-37	IC LM50CIM3			
IC151	9-885-028-38	IC HD64F3039TEBL18/7331AE			
IC152	8-759-426-24	IC TC7ST08FU			
IC153	9-885-018-19	IC IC-PST597EN			
IC154	8-759-096-86	IC TC7WU04FU			
IC201	9-885-018-21	IC TC9453AF			
IC202	9-885-018-23	IC MSM511666C-50TS-K-DR1			
IC250	9-885-018-29	IC TC9469BF (BS, DRY, CA)			
IC251	9-885-018-30	IC MSM514265C-50TS-K-DR1			
IC301	9-885-028-40	IC uPD780023AGK-B78-9ET			
IC303	8-759-052-52	IC L78M05T			
IC304	8-759-565-64	IC BA6289F			
IC305	8-759-565-64	IC BA6289F			
IC306	8-759-067-57	IC S-80732AN-DW			
IC307	8-759-937-55	IC S-81250HG-RD-T2			
IC308	8-759-067-57	IC S-80732AN-DW			
		< RESISTOR >			
L201	1-216-864-11	RES, CHIP	0		
L202	1-216-864-11	RES, CHIP	0		
L203	1-216-864-11	RES, CHIP	0		
		< TRANSISTOR >			
Q101	8-729-926-86	TRANSISTOR	2SB1424-R		
Q102	8-729-824-24	TRANSISTOR	2SA1338-5		
Q103	8-729-824-24	TRANSISTOR	2SA1338-5		
Q151	8-729-924-02	TRANSISTOR	DTA114YU		
Q152	8-729-824-24	TRANSISTOR	2SA1338-5		
Q201	9-885-018-26	TRANSISTOR	IMB9A		
Q202	8-729-046-73	TRANSISTOR	FMG13		
Q301	8-729-926-86	TRANSISTOR	2SB1424-R		
Q302	8-729-900-52	TRANSISTOR	DTC114YK		
Q303	8-729-901-44	TRANSISTOR	DTA114YK		
Q304	8-729-901-78	TRANSISTOR	2SC2412K-R		
Q306	8-729-822-72	TRANSISTOR	2SD1815-FAS-TL		
		< RESISTOR >			
R110	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R111	1-216-833-11	RES, CHIP	10K	5%	1/16W
R112	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R113	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R114	1-216-834-11	RES, CHIP	12K	5%	1/16W
R115	1-216-833-11	RES, CHIP	10K	5%	1/16W
R116	1-216-809-11	RES, CHIP	100	5%	1/16W
R118	1-216-845-11	RES, CHIP	100K	5%	1/16W
R119	1-216-797-11	RES, CHIP	10	5%	1/16W
R120	1-216-821-11	RES, CHIP	1K	5%	1/16W
R121	1-216-797-11	RES, CHIP	10	5%	1/16W
R122	1-216-821-11	RES, CHIP	1K	5%	1/16W
R131	1-216-831-11	RES, CHIP	6.8K	5%	1/16W
R132	1-216-828-11	RES, CHIP	3.9K	5%	1/16W
R133	1-216-838-11	RES, CHIP	27K	5%	1/16W
R134	1-216-837-11	RES, CHIP	22K	5%	1/16W
R135	1-216-839-11	RES, CHIP	33K	5%	1/16W
R151	1-216-841-11	RES, CHIP	47K	5%	1/16W
R152	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R153	1-216-841-11	RES, CHIP	47K	5%	1/16W
R154	1-216-841-11	RES, CHIP	47K	5%	1/16W
R155	1-216-841-11	RES, CHIP	47K	5%	1/16W
R156	1-216-821-11	RES, CHIP	1K	5%	1/16W
R157	1-216-841-11	RES, CHIP	47K	5%	1/16W
R158	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R159	1-216-833-11	RES, CHIP	10K	5%	1/16W
R201	1-216-841-11	RES, CHIP	47K	5%	1/16W
R202	1-216-826-11	RES, CHIP	2.7K	5%	1/16W
R206	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R207	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R209	1-216-821-11	RES, CHIP	1K	5%	1/16W
R210	1-216-833-11	RES, CHIP	10K	5%	1/16W
R216	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R217	1-216-821-11	RES, CHIP	1K	5%	1/16W
R220	1-216-861-11	RES, CHIP	2.2M	5%	1/16W
R221	1-216-853-11	RES, CHIP	470K	5%	1/16W
R222	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R230	1-216-842-11	RES, CHIP	56K	5%	1/16W
R231	1-216-838-11	RES, CHIP	27K	5%	1/16W
R232	1-216-842-11	RES, CHIP	56K	5%	1/16W
R233	1-216-838-11	RES, CHIP	27K	5%	1/16W
R237	1-216-854-11	RES, CHIP	560K	5%	1/16W
R240	1-216-809-11	RES, CHIP	100	5%	1/16W
R241	1-216-836-11	RES, CHIP	18K	5%	1/16W
R245	1-216-821-11	RES, CHIP	1K	5%	1/16W
R246	1-216-821-11	RES, CHIP	1K	5%	1/16W
R247	1-216-845-11	RES, CHIP	100K	5%	1/16W
R248	1-216-845-11	RES, CHIP	100K	5%	1/16W
R249	1-216-833-11	RES, CHIP	10K	5%	1/16W
R250	1-216-857-11	RES, CHIP	1M	5%	1/16W
R251	1-216-818-11	RES, CHIP	560	5%	1/16W
R252	1-216-818-11	RES, CHIP	560	5%	1/16W
R253	1-216-809-11	RES, CHIP	100	5%	1/16W
R254	1-216-809-11	RES, CHIP	100	5%	1/16W
R255	1-216-821-11	RES, CHIP	1K	5%	1/16W
R301	1-202-996-11	RES, CHIP	100	5%	1/2W
R303	1-216-821-11	RES, CHIP	1K	5%	1/16W
R304	9-885-018-48	RES, CHIP	1K		1/2W
R305	9-885-018-48	RES, CHIP	1K		1/2W
R306	1-216-833-11	RES, CHIP	10K	5%	1/16W
R307	9-885-018-48	RES, CHIP	1K		1/2W
R308	1-202-996-11	RES, CHIP	100	5%	1/2W
R309	1-216-833-11	RES, CHIP	10K	5%	1/16W
R310	1-216-837-11	RES, CHIP	22K	5%	1/16W
R311	1-216-845-11	RES, CHIP	100K	5%	1/16W
R312	1-216-842-11	RES, CHIP	56K	5%	1/16W
R313	1-216-841-11	RES, CHIP	47K	5%	1/16W
R314	1-216-818-11	RES, CHIP	560	5%	1/16W
R315	1-216-841-11	RES, CHIP	47K	5%	1/16W
R316	1-216-845-11	RES, CHIP	100K	5%	1/16W
R317	1-216-841-11	RES, CHIP	47K	5%	1/16W

MAIN (TYPE C) MPEG

Ref. No.	Part No.	Description			Remark
R318	1-216-841-11	RES, CHIP	47K	5%	1/16W
R319	1-216-819-11	RES, CHIP	680	5%	1/16W
R320	1-216-841-11	RES, CHIP	47K	5%	1/16W
R321	1-218-818-11	RES, CHIP	220	5%	1/2W
R322	1-216-809-11	RES, CHIP	100	5%	1/16W
R323	1-216-821-11	RES, CHIP	1K	5%	1/16W
R325	1-216-841-11	RES, CHIP	47K	5%	1/16W
R326	1-216-816-11	RES, CHIP	390	5%	1/16W
R327	1-216-841-11	RES, CHIP	47K	5%	1/16W
R328	1-216-841-11	RES, CHIP	47K	5%	1/16W
R329	1-216-841-11	RES, CHIP	47K	5%	1/16W
R331	1-216-809-11	RES, CHIP	100	5%	1/16W
R332	1-216-809-11	RES, CHIP	100	5%	1/16W
R333	1-216-809-11	RES, CHIP	100	5%	1/16W
R335	1-216-841-11	RES, CHIP	47K	5%	1/16W
R336	1-216-833-11	RES, CHIP	10K	5%	1/16W
R337	1-216-809-11	RES, CHIP	100	5%	1/16W
R339	1-216-864-11	RES, CHIP	0		
R340	1-216-816-11	RES, CHIP	390	5%	1/16W
		< NETWORK RESISTOR >			
RA102	1-233-791-11	NETWORK RESISTOR	47K		
RA103	1-233-789-11	NETWORK RESISTOR	10K		
RA151	1-233-787-11	NETWORK RESISTOR	1K		
RA152	1-233-578-11	NETWORK RESISTOR	47K		
RA154	1-233-578-11	NETWORK RESISTOR	47K		
RA155	1-233-578-11	NETWORK RESISTOR	47K		
RA157	1-233-578-11	NETWORK RESISTOR	47K		
RA162	1-233-787-11	NETWORK RESISTOR	1K		
RA201	1-233-789-11	NETWORK RESISTOR	10K		
RA202	1-233-787-11	NETWORK RESISTOR	1K		
RA203	1-233-415-11	NETWORK RESISTOR	10K		
RA204	1-233-791-11	NETWORK RESISTOR	47K		
RA205	1-233-791-11	NETWORK RESISTOR	47K		
RA250	1-233-784-11	NETWORK RESISTOR	47		
RA251	1-233-784-11	NETWORK RESISTOR	47		
RA252	1-233-784-11	NETWORK RESISTOR	47		
RA253	1-233-784-11	NETWORK RESISTOR	47		
RA254	1-233-784-11	NETWORK RESISTOR	47		
RA255	1-233-784-11	NETWORK RESISTOR	47		
RA256	1-233-784-11	NETWORK RESISTOR	47		
RA257	1-233-784-11	NETWORK RESISTOR	47		
RA258	1-233-784-11	NETWORK RESISTOR	47		
RA259	1-233-784-11	NETWORK RESISTOR	47		
RA260	1-233-784-11	NETWORK RESISTOR	47		
RA261	1-233-784-11	NETWORK RESISTOR	47		
RA262	1-233-784-11	NETWORK RESISTOR	47		
RA263	1-233-784-11	NETWORK RESISTOR	47		
RA264	1-233-784-11	NETWORK RESISTOR	47		
RA301	1-233-578-11	NETWORK RESISTOR	47K		
		< VARIABLE RESISTOR >			
SVR201	9-885-018-28	VARIABLE RESISTOR 4.7K			
		< SWITCH >			
SW301	9-885-018-39	SWITCH, TACT (⏏ EJECT)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X151	9-885-018-20	VIBRATOR, CERAMIC (16MHz)			
X201	9-885-018-27	VIBRATOR, CERAMIC (22.579MHz)			
X250	9-885-018-35	VIBRATOR, CERAMIC (50MHz)			
X301	9-885-018-40	VIBRATOR, CERAMIC (8.388MHZ)			
		< DIODE >			
ZD301	9-885-018-38	DIODE 02CZ8.2-Y			
ZD302	9-885-018-38	DIODE 02CZ8.2-Y			
ZD303	9-885-018-37	DIODE 02CZ6.2-Y			
**********					
	9-885-016-37	MPEG BOARD, COMPLETE			
		**********			
	9-885-016-79	BRACKET-E, SOCKET			
		< NETWORK RESISTOR >			
BR501	1-233-789-11	NETWORK RESISTOR	10K		
BR502	1-234-524-11	NETWORK RESISTOR	33		
BR503	1-234-524-11	NETWORK RESISTOR	33		
BR504	1-233-787-11	NETWORK RESISTOR	1K		
BR551	1-234-524-11	NETWORK RESISTOR	33		
BR552	1-234-524-11	NETWORK RESISTOR	33		
BR553	1-234-524-11	NETWORK RESISTOR	33		
BR554	1-234-524-11	NETWORK RESISTOR	33		
BR555	1-233-783-11	NETWORK RESISTOR	22		
BR556	1-234-524-11	NETWORK RESISTOR	33		
BR557	1-233-798-11	NETWORK RESISTOR	33		
BR558	1-234-524-11	NETWORK RESISTOR	33		
BR559	1-233-798-11	NETWORK RESISTOR	33		
BR801	1-233-681-11	NETWORK RESISTOR	4.7K		
BR802	1-234-524-11	NETWORK RESISTOR	33		
BR803	1-233-414-11	NETWORK RESISTOR	4.7K		
BR804	1-233-414-11	NETWORK RESISTOR	4.7K		
BR805	1-233-414-11	NETWORK RESISTOR	4.7K		
BR806	1-233-414-11	NETWORK RESISTOR	4.7K		
BR807	1-233-414-11	NETWORK RESISTOR	4.7K		
BR808	1-233-414-11	NETWORK RESISTOR	4.7K		
BR809	1-233-414-11	NETWORK RESISTOR	4.7K		
BR810	1-233-414-11	NETWORK RESISTOR	4.7K		
BR811	1-233-414-11	NETWORK RESISTOR	4.7K		
BR812	1-233-414-11	NETWORK RESISTOR	4.7K		
BR813	1-233-414-11	NETWORK RESISTOR	4.7K		
BR814	1-233-414-11	NETWORK RESISTOR	4.7K		
		< CAPACITOR >			
C001	9-885-016-74	ELECT	2200uF		16V
C002	9-885-016-73	ELECT	470uF		16V
C003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C004	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C005	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C006	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C007	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C008	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C009	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C010	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C011	1-162-920-11	CERAMIC CHIP	27PF	5%	50V

Ref. No.	Part No.	Description			Remark
C012	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C015	1-115-156-11	CERAMIC CHIP	1uF		10V
C016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C017	1-128-006-11	ELECT	4.7uF	20%	25V
C018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C019	9-885-016-72	ELECT	47uF		10V
C020	9-885-016-72	ELECT	47uF		10V
C021	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C022	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C042	1-126-205-11	ELECT	47uF	20%	6.3V
C051	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C052	1-126-205-11	ELECT	47uF	20%	6.3V
C061	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C062	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C063	9-885-016-71	ELECT	22uF		6.3V
C072	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C081	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C082	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C096	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C097	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C098	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C099	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C102	1-128-004-11	ELECT	10uF	20%	16V
C105	1-126-204-11	ELECT	47uF	20%	16V
C106	1-126-205-11	ELECT	47uF	20%	6.3V
C107	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C108	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C109	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C111	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C112	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C114	1-128-004-11	ELECT	10uF	20%	16V
C115	1-128-004-11	ELECT	10uF	20%	16V
C116	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C117	1-128-004-11	ELECT	10uF	20%	16V
C118	1-126-204-11	ELECT	47uF	20%	16V
C119	1-126-205-11	ELECT	47uF	20%	6.3V
C120	9-885-016-71	ELECT	22uF		6.3V
C121	9-885-016-71	ELECT	22uF		6.3V
C122	1-126-205-11	ELECT	47uF	20%	6.3V
C123	1-126-206-11	ELECT	100uF	20%	6.3V
C127	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C151	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C152	1-128-004-11	ELECT	10uF	20%	16V
C157	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C158	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C159	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C161	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C162	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C164	1-128-004-11	ELECT	10uF	20%	16V
C165	1-128-004-11	ELECT	10uF	20%	16V
C166	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C167	1-128-004-11	ELECT	10uF	20%	16V
C170	9-885-016-71	ELECT	22uF		6.3V
C171	9-885-016-71	ELECT	22uF		6.3V
C177	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C181	1-126-205-11	ELECT	47uF	20%	6.3V
C182	1-126-205-11	ELECT	47uF	20%	6.3V
C183	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C184	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C185	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C186	1-126-205-11	ELECT	47uF	20%	6.3V
C187	1-135-474-11	ELECT	330uF	20%	6.3V
C188	1-126-205-11	ELECT	47uF	20%	6.3V
C189	1-135-474-11	ELECT	330uF	20%	6.3V
C190	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C515	1-126-205-11	ELECT	47uF	20%	6.3V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C520	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C521	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C526	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C527	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C529	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C530	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C535	1-135-474-11	ELECT	330uF	20%	6.3V
C536	1-128-004-11	ELECT	10uF	20%	16V
C537	1-128-004-11	ELECT	10uF	20%	16V
C542	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C551	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C552	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C553	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C557	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

MPEG

Ref. No.	Part No.	Description			Remark
C558	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C559	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C560	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C561	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C562	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C563	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C564	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C565	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C566	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C568	1-128-004-11	ELECT	10uF	20%	16V
C572	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C573	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C574	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C575	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C576	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C577	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C802	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C803	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C804	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C805	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C806	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C807	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C811	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C812	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
CS001	9-885-016-38	SOCKET, DIN CONNECTOR (DIN)			
CS002	9-885-016-39	DIN CORD (for REMOTE CONTROL SENSOR CONNECTING)			
CS151	9-885-016-41	CORD, RCA (AUDIO OUTPUT, VIDEO OUTPUT FRONT/REAR, PARKING BRAKE)			
CS541	9-885-016-40	CONNECTOR (OPTICAL) (OPTICAL DIGITAL OUT)			
CS551	9-885-016-42	SOCKET, CONNECTOR 40P			
CS552	9-885-016-43	PLUG, CONNECTOR 10P			
CS553	9-885-016-43	PLUG, CONNECTOR 10P			
		< TRIMMER >			
CT501	9-885-016-75	TRIMMER	20PF		
		< DIODE >			
D001	9-885-016-60	DIODE	MA142K		
D002	9-885-016-60	DIODE	MA142K		
D003	9-885-016-61	DIODE	EP10QY03		
D004	9-885-016-61	DIODE	EP10QY03		
D061	8-719-988-62	DIODE	1SS355		
D101	8-719-941-86	DIODE	DAN202U		
D181	8-719-988-62	DIODE	1SS355		
DZ002	9-885-016-58	DIODE	PTZ3.9B		
DZ003	9-885-016-59	DIODE	PTZ6.2B		
		< FILTER >			
FLT181	9-885-016-65	LC FILTER			

Ref. No.	Part No.	Description		Remark
		< IC >		
IC001	8-759-597-57	IC	LTC1628CG	
IC041	9-885-016-53	IC	S-816A25AMC-BAA-T2	
IC051	9-885-016-53	IC	S-816A25AMC-BAA-T2	
IC061	8-759-668-14	IC	PQ09DZ1U	
IC071	8-759-937-55	IC	S-81250HG-RD-T2	
IC081	8-759-937-55	IC	S-81250HG-RD-T2	
IC101	8-759-048-67	IC	BA3121F	
IC102	8-759-661-88	IC	NJM2123V	
IC105	8-759-710-28	IC	NJM4565M-B	
IC181	8-759-680-59	IC	NJM2137V	
IC182	8-759-571-32	IC	TK15405M	
IC183	8-759-571-32	IC	TK15405M	
IC501	9-885-016-46	IC	MB86373BPFV-G-BND	
IC502	9-885-016-50	IC	A43L0616V-6	
IC503	9-885-016-52	IC	BU2280FV	
IC504	8-759-564-49	IC	TC7W53FU	
IC505	8-759-195-65	IC	TC7SH08FU	
IC531	8-759-499-66	IC	PCM1716E	
IC541	8-759-426-24	IC	TC7ST08FU	
IC551	9-885-016-45	IC	MB86366PFV-G-BND	
IC552	9-885-016-50	IC	A43L0616V-6	
IC553	8-759-538-04	IC	S-80820ANMP-EDH-T2	
IC554	8-759-195-65	IC	TC7SH08FU	
IC555	9-885-016-51	IC	NJU6324LE	
IC801	9-885-016-47	IC	MB91101APFV-G-BND	
IC802	9-885-016-49	IC	IS41LV16100S-50T	
IC803	9-885-016-48	IC	MBM29LV800TA-90/7370AA	
IC805	8-759-426-24	IC	TC7ST08FU	
IC806	8-759-195-65	IC	TC7SH08FU	
		< COIL >		
L001	9-885-016-68	INDUCTOR		
L002	9-885-016-67	INDUCTOR	22uH	
L003	9-885-016-67	INDUCTOR	22uH	
L061	9-885-016-68	INDUCTOR		
L101	9-885-016-70	CORE		
L102	9-885-016-70	CORE		
L151	9-885-016-70	CORE		
L152	9-885-016-70	CORE		
L191	9-885-016-70	CORE		
L192	9-885-016-70	CORE		
L502	9-885-016-69	INDUCTOR		
L503	9-885-016-69	INDUCTOR		
L504	9-885-016-69	INDUCTOR		
L555	9-885-016-69	INDUCTOR		
L561	9-885-016-70	CORE		
L562	9-885-016-70	CORE		
L563	9-885-016-70	CORE		
L564	9-885-016-70	CORE		
L565	9-885-016-70	CORE		
L566	9-885-016-69	INDUCTOR		
L567	9-885-016-69	INDUCTOR		
L801	9-885-016-66	INDUCTOR	10uH	
		< TRANSISTOR >		
Q001	9-885-016-56	TRANSISTOR	2SA1622-6	

Ref. No.	Part No.	Description			Remark
Q002	9-885-016-55	TRANSISTOR	FDS8936A		
Q003	9-885-016-55	TRANSISTOR	FDS8936A		
Q041	8-729-926-84	TRANSISTOR	2SB1424-Q		
Q051	8-729-926-84	TRANSISTOR	2SB1424-Q		
Q071	8-729-028-72	TRANSISTOR	DTA113ZUA		
Q072	8-729-029-14	TRANSISTOR	DTC114EUA		
Q101	8-729-028-99	TRANSISTOR	DTC114YUA		
Q102	8-729-028-72	TRANSISTOR	DTA113ZUA		
Q103	9-885-016-57	TRANSISTOR	DTC323TU		
Q104	8-729-029-14	TRANSISTOR	DTC144EUA		
Q105	9-885-016-57	TRANSISTOR	DTC323TU		
Q153	9-885-016-57	TRANSISTOR	DTC323TU		
Q155	9-885-016-57	TRANSISTOR	DTC323TU		
Q181	8-729-029-14	TRANSISTOR	DTC144EUA		
		< RESISTOR >			
R001	1-216-845-11	RES, CHIP	100K	5%	1/16W
R002	1-216-836-11	RES, CHIP	18K	5%	1/16W
R003	1-216-835-11	RES, CHIP	15K	5%	1/16W
R004	1-216-835-11	RES, CHIP	15K	5%	1/16W
R005	1-216-837-11	RES, CHIP	22K	5%	1/16W
R006	1-216-843-11	RES, CHIP	68K	5%	1/16W
R007	1-216-001-00	RES, CHIP	10	5%	1/10W
R008	1-216-845-11	RES, CHIP	100K	5%	1/16W
R009	9-885-016-77	RES, CHIP	0.047		1/2W
R010	9-885-016-76	RES, CHIP	0.024		1/2W
R011	1-216-801-11	RES, CHIP	22	5%	1/16W
R012	1-216-801-11	RES, CHIP	22	5%	1/16W
R013	1-216-801-11	RES, CHIP	22	5%	1/16W
R014	1-216-801-11	RES, CHIP	22	5%	1/16W
R061	1-216-833-11	RES, CHIP	10K	5%	1/16W
R071	1-216-797-11	RES, CHIP	10	5%	1/16W
R072	1-216-809-11	RES, CHIP	100	5%	1/16W
R091	1-216-797-11	RES, CHIP	10	5%	1/16W
R101	1-216-833-11	RES, CHIP	10K	5%	1/16W
R102	1-216-833-11	RES, CHIP	10K	5%	1/16W
R103	1-216-837-11	RES, CHIP	22K	5%	1/16W
R104	1-216-823-11	RES, CHIP	1.5K	5%	1/16W
R105	1-216-830-11	RES, CHIP	5.6K	5%	1/16W
R106	1-216-837-11	RES, CHIP	22K	5%	1/16W
R107	1-216-833-11	RES, CHIP	10K	5%	1/16W
R108	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R109	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R110	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R111	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R114	1-216-841-11	RES, CHIP	47K	5%	1/16W
R115	1-216-842-11	RES, CHIP	56K	5%	1/16W
R116	1-216-823-11	RES, CHIP	1.5K	5%	1/16W
R118	1-216-845-11	RES, CHIP	100K	5%	1/16W
R119	1-216-837-11	RES, CHIP	22K	5%	1/16W
R120	1-216-837-11	RES, CHIP	22K	5%	1/16W
R121	1-216-944-11	RES, CHIP	13K	5%	1/16W
R122	1-216-809-11	RES, CHIP	100	5%	1/16W
R123	1-216-833-11	RES, CHIP	10K	5%	1/16W
R124	1-216-833-11	RES, CHIP	10K	5%	1/16W
R125	1-216-845-11	RES, CHIP	100K	5%	1/16W
R126	1-216-845-11	RES, CHIP	100K	5%	1/16W
R127	1-216-818-11	RES, CHIP	560	5%	1/16W

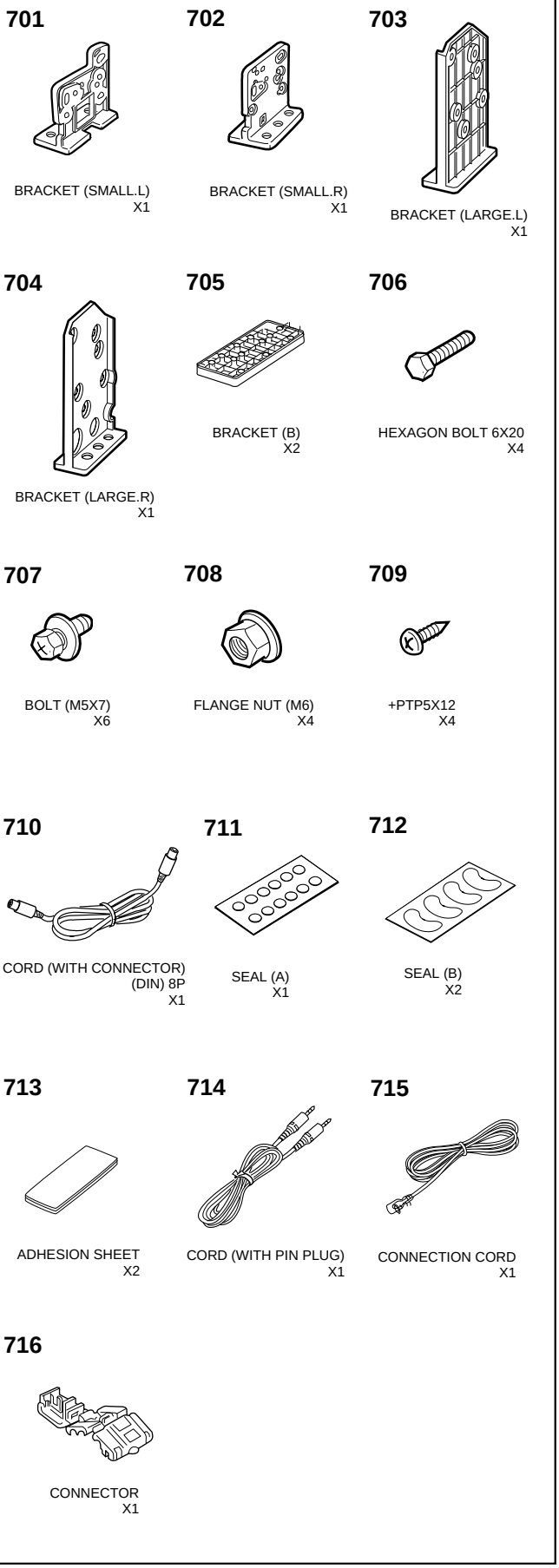
Ref. No.	Part No.	Description			Remark
R151	1-216-833-11	RES, CHIP	10K	5%	1/16W
R152	1-216-833-11	RES, CHIP	10K	5%	1/16W
R153	1-216-837-11	RES, CHIP	22K	5%	1/16W
R154	1-216-823-11	RES, CHIP	1.5K	5%	1/16W
R155	1-216-830-11	RES, CHIP	5.6K	5%	1/16W
R156	1-216-837-11	RES, CHIP	22K	5%	1/16W
R157	1-216-833-11	RES, CHIP	10K	5%	1/16W
R158	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R159	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R160	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R161	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R168	1-216-845-11	RES, CHIP	100K	5%	1/16W
R169	1-216-837-11	RES, CHIP	22K	5%	1/16W
R170	1-216-837-11	RES, CHIP	22K	5%	1/16W
R171	1-216-944-11	RES, CHIP	13K	5%	1/16W
R172	1-216-809-11	RES, CHIP	100	5%	1/16W
R176	1-216-845-11	RES, CHIP	100K	5%	1/16W
R177	1-216-818-11	RES, CHIP	560	5%	1/16W
R181	1-216-821-11	RES, CHIP	1K	5%	1/16W
R182	1-216-833-11	RES, CHIP	10K	5%	1/16W
R183	1-216-833-11	RES, CHIP	10K	5%	1/16W
R184	1-216-815-11	RES, CHIP	330	5%	1/16W
R185	1-216-823-11	RES, CHIP	1.5K	5%	1/16W
R186	1-216-819-11	RES, CHIP	680	5%	1/16W
R187	1-216-823-11	RES, CHIP	1.5K	5%	1/16W
R188	1-218-285-11	RES, CHIP	75	5%	1/16W
R189	1-218-285-11	RES, CHIP	75	5%	1/16W
R190	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R191	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R192	1-216-833-11	RES, CHIP	10K	5%	1/16W
R193	1-216-833-11	RES, CHIP	10K	5%	1/16W
R194	1-216-841-11	RES, CHIP	47K	5%	1/16W
R501	1-216-826-11	RES, CHIP	2.7K	5%	1/16W
R502	1-216-821-11	RES, CHIP	1K	5%	1/16W
R503	1-216-833-11	RES, CHIP	10K	5%	1/16W
R504	1-216-821-11	RES, CHIP	1K	5%	1/16W
R505	1-216-833-11	RES, CHIP	10K	5%	1/16W
R506	1-216-833-11	RES, CHIP	10K	5%	1/16W
R507	1-216-833-11	RES, CHIP	10K	5%	1/16W
R508	1-216-821-11	RES, CHIP	1K	5%	1/16W
R509	1-216-821-11	RES, CHIP	1K	5%	1/16W
R510	1-216-821-11	RES, CHIP	1K	5%	1/16W
R511	1-216-803-11	RES, CHIP	33	5%	1/16W
R512	1-216-803-11	RES, CHIP	33	5%	1/16W
R513	1-216-833-11	RES, CHIP	10K	5%	1/16W
R514	1-216-818-11	RES, CHIP	560	5%	1/16W
R515	1-216-817-11	RES, CHIP	470	5%	1/16W
R517	1-216-811-11	RES, CHIP	150	5%	1/16W
R518	1-216-821-11	RES, CHIP	1K	5%	1/16W
R520	1-216-803-11	RES, CHIP	33	5%	1/16W
R521	1-216-803-11	RES, CHIP	33	5%	1/16W
R522	1-216-803-11	RES, CHIP	33	5%	1/16W
R523	1-216-803-11	RES, CHIP	33	5%	1/16W
R525	1-216-821-11	RES, CHIP	1K	5%	1/16W
R535	1-216-803-11	RES, CHIP	33	5%	1/16W
R541	1-218-285-11	RES, CHIP	75	5%	1/16W
R551	1-216-833-11	RES, CHIP	10K	5%	1/16W
R552	1-216-830-11	RES, CHIP	5.6K	5%	1/16W

MPEG **PHOTO** **SENSOR** **SW**

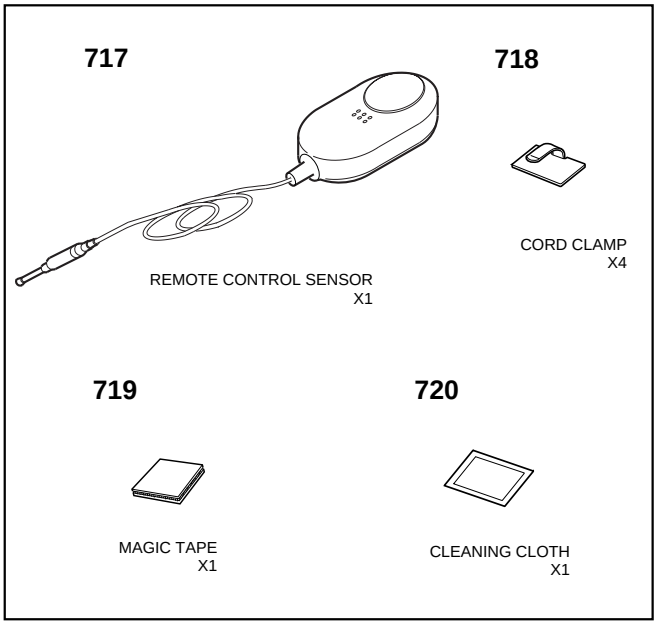
Ref. No.	Part No.	Description			Remark
R553	1-216-803-11	RES, CHIP	33	5%	1/16W
R554	1-216-821-11	RES, CHIP	1K	5%	1/16W
R555	1-216-821-11	RES, CHIP	1K	5%	1/16W
R556	1-216-809-11	RES, CHIP	100	5%	1/16W
R557	1-216-833-11	RES, CHIP	10K	5%	1/16W
R558	1-216-821-11	RES, CHIP	1K	5%	1/16W
R559	1-216-803-11	RES, CHIP	33	5%	1/16W
R560	1-216-821-11	RES, CHIP	1K	5%	1/16W
R561	1-216-833-11	RES, CHIP	10K	5%	1/16W
R562	1-216-833-11	RES, CHIP	10K	5%	1/16W
R563	1-218-808-11	RES, CHIP	82	5%	1/16W
R564	1-218-808-11	RES, CHIP	82	5%	1/16W
R565	1-218-808-11	RES, CHIP	82	5%	1/16W
R566	1-218-808-11	RES, CHIP	82	5%	1/16W
R802	1-216-841-11	RES, CHIP	47K	5%	1/16W
R803	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R804	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R805	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R806	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R807	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R809	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R810	1-216-812-11	RES, CHIP	180	5%	1/16W
R811	1-216-821-11	RES, CHIP	1K	5%	1/16W
		< VARIABLE RESISTOR >			
SVR181	9-885-016-78	VARIABLE RESISTOR 1K			
		< SWITCH >			
SW801	9-885-016-44	SLIDE SWITCH (NTSC/PAL)			
		< VIBRATOR >			
X501	9-885-016-62	VIBRATOR, CRYSTAL (27MHz)			
X551	9-885-016-63	VIBRATOR, CRYSTAL (32MHz)			
X801	9-885-016-64	VIBRATOR, CERAMIC (12.5MHz)			
**********					
	9-885-018-68	PHOTO BOARD			
		**********			
	9-885-018-70	CORD, PRESSURE WELDING (5P-100mm)			
		< PHOTO COUPLER >			
PHT1	9-885-018-69	PHOTO COUPLER GP1S51V			
**********					
	9-885-018-61	SENSOR BOARD			
		**********			
	9-885-018-63	WIRE (4P-91mm)			
		< PHOTO DIODE >			
D1	9-885-018-62	PHOTO DIODE PS1191RA-32 (DISC DETECT)			
		< SWITCH >			
SW1	9-885-017-39	SWITCH, PUSH (LOADING OUT DETECT)			
**********					

Ref. No.	Part No.	Description	Remark
	9-885-018-59	SW BOARD	
		*********	
		< SWITCH >	
SW2	9-885-017-39	SWITCH, PUSH (ELEVATOR TOP POSITION DETECT)	
SW3	9-885-017-39	SWITCH, PUSH (ELEVATOR BOTTOM POSITION DETECT)	
**********			
		MISCELLANEOUS	
		**********	
7	1-823-372-11	CORD (WITH CONNECTOR) (DIN) 8P (for RF UNIT CONNECTING)	
8	1-476-922-11	RF UNIT (HIDEAWAY)	
9	1-476-923-11	WIRED COMMANDER (RM-X130)	
10	1-476-924-11	SENSOR, REMOTE CONTROL	
11	1-823-373-11	CORD (WITH PIN PLUG) (VIDEO)	
12	1-823-374-11	CORD, CONNECTION (PARKING)	
51	9-885-018-73	WIRE, HARNESS, 10P 180mm	
54	9-885-017-00	LUG	
58	9-885-016-79	BRACKET-E, SOCKET	
59	9-885-018-74	CORE ASSY	
60	9-885-018-72	WIRE, 40P-102mm	
151	9-885-018-14	WIRE, GROUND	
153	9-885-018-12	WIRE, 25P-91mm	
154	9-885-018-13	WIRE, 30P-117mm	
157	9-885-018-70	CORD, PRESSURE WELDING (5P-100mm)	
166	9-885-017-11	ASSY, LUG	
167	9-885-017-10	ASSY, LUG	
263	9-885-017-38	CORD, PRESSURE WELDING (2P-160mm)	
⚠301	9-885-017-46	ASSY, CHASSIS, DVD	
306	9-885-018-67	CORD, PRESSURE WELDING (4P-50mm)	
418	9-885-018-63	WIRE, 4P-91mm	
F1	1-532-417-11	FUSE, GLASS CYLINDRICAL (2A)	
F2	1-532-421-11	FUSE, GLASS CYLINDRICAL (5A)	
M1	9-885-017-09	ASSY, MOTOR, DC (ELEVATOR)	
M2	9-885-017-47	ASSY, MOTOR, DC (SLED)	
M3	9-885-017-09	ASSY, MOTOR, DC (LOADING)	
S1	9-885-017-39	SWITCH, PUSH (MAGAZINE IN/OUT DETECT)	
S2	9-885-017-48	SWITCH, PUSH, 1P-1T (LIMIT)	
**********			
		ACCESSORIES	
		**********	
	1-476-922-11	RF UNIT (HIDEAWAY)	
	1-476-923-11	WIRED COMMANDER (RM-X130)	
	1-476-924-11	SENSOR, REMOTE CONTROL	
	1-476-925-11	WIRELESS COMMANDER (RM-X120)	
	3-234-623-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN)	
	3-234-623-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, TRADITIONAL CHINESE)	
	3-234-783-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN)	
	3-234-783-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, TRADITIONAL CHINESE)	
	9-885-018-99	LID, BATTERY CASE (for RM-X120)	
	A-3315-447-A	MAGAZINE (350) ASSY	
**********			

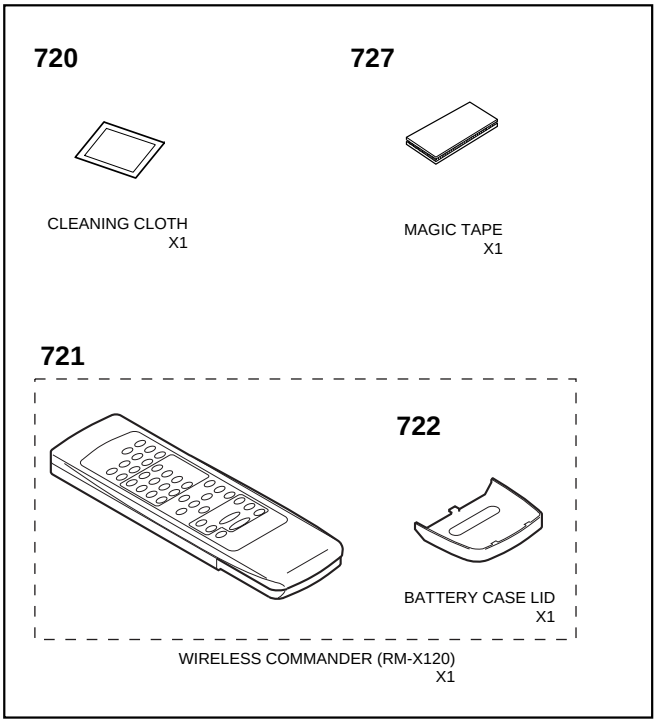
Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS (for DVD CHANGER) **********	
701	3-234-618-01	BRACKET (SMALL. L)	
702	3-234-619-01	BRACKET (SMALL. R)	
703	3-234-620-01	BRACKET (LARGE. L)	
704	3-234-621-01	BRACKET (LARGE. R)	
705	3-234-622-01	BRACKET (B)	
706	7-683-357-07	BOLT, HEXAGON 6X20	
707	3-910-039-01	BOLT (M5X7)	
708	3-235-107-01	NUT (M6), FLANGE	
709	3-235-106-01	SCREW (5X12), +PTP	
710	1-823-372-11	CORD (WITH CONNECTOR) (DIN) 8P (for RF UNIT CONNECTING)	
711	3-235-841-01	SEAL (A)	
712	3-235-842-01	SEAL (B)	
713	3-235-843-01	SHEET, ADHESION	
714	1-823-373-11	CORD (WITH PIN PLUG) (VIDEO)	
715	1-823-374-11	CORD, CONNECTION (PARKING)	
716	1-695-529-11	CONNECTOR (RELAY)	



Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS (for REMOTE CONTROL SENSOR) **********	
717	1-476-924-11	SENSOR, REMOTE CONTROL	
718	3-389-594-01	CLAMP, CORD	
719	4-916-258-01	TAPE, MAGIC	
720	not supplied	CLEANING CLOTH	

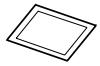


Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS (for WIRELESS COMMANDER (RM-X120)) **********	
720	not supplied	CLEANING CLOTH	
721	1-476-925-11	WIRELESS COMMANDER (RM-X120)	
722	9-885-018-99	LID, BATTERY CASE	
727	9-885-016-07	TAPE, MAGIC	



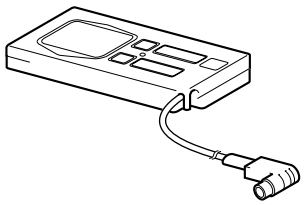
Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS (for WIRED COMMANDER (RM-X130)) **********	
720	not supplied	CLEANING CLOTH	
723	1-476-923-11	WIRED COMMANDER (RM-X130)	
724	9-885-016-07	TAPE, MAGIC	

720



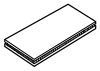
CLEANING CLOTH
X1

723



WIRED COMMANDER (RM-X130)
X1

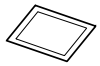
724



MAGIC TAPE
X1

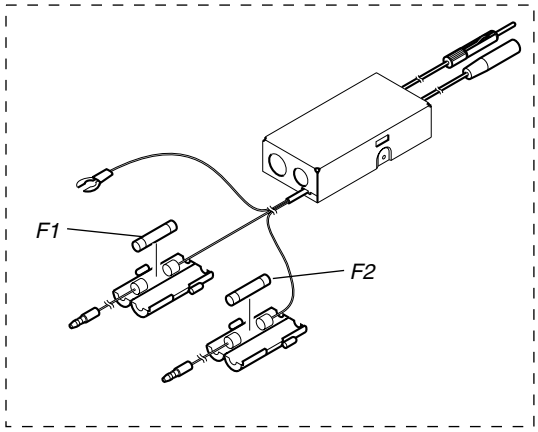
Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS (for RF UNIT (HIDEAWAY)) **********	
720	not supplied	CLEANING CLOTH	
725	1-476-922-11	RF UNIT (HIDEAWAY)	
726	9-885-016-07	TAPE, MAGIC	
F1	1-532-417-11	FUSE, GLASS CYLINDRICAL (2A)	
F2	1-532-421-11	FUSE, GLASS CYLINDRICAL (5A)	

720



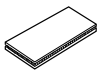
CLEANING CLOTH
X1

725



RF UNIT (HIDEAWAY)
X1

726



MAGIC TAPE
X1

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001.09	New
1.1	2002.01	Addition of chucking operation checking in servicing notes (SPM-01027)
1.2	2002.09	Change of MAIN board (ENG-02010)
1.3	2005.03	Change of Part No. for MAIN board (TYPE C) (SPM-05005)